

Akreditasyon Sertifikası Eki (Sayfa 1/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.	
	Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022	
Deney Laboratuvarı		
Adresi : Büyükesat Mahallesi, Kaptanpaşa Sokak No:2 06700 ANKARA/TÜRKİYE		Tel : 0 312 447 29 99 Faks : 0 312 447 86 66 E-Posta : duzenorwest@duzen.com.tr Website : www.duzenorwest.com.tr

Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Su	Nehirlerden ve Akarsulardan Numune Alma	TS EN ISO 5667-6
	Yeraltı Sularından Numune Alma	TS ISO 5667-11
	Göl ve Göletlerden Numune Alma	TS ISO 5667-4
Su	Mikrobiyolojik Analizler İçin Numune Alma	TS EN ISO 19458
	pH Tayini Elektrometrik Metot	SM 4500 H ⁺ B
	Toplam Katı Madde Tayini Gravimetrik Metot	SM 2540 B
	İletkenlik Tayini Laboratuvar Metodu	SM 2510 B
	Yağ ve Gres Tayini Ön İşlem: Sokslet Ekstraksiyon Metodu Ölçüm: Gravimetrik Metot	SM 5520 D
	Askıda Katı Madde (AKM) Tayini Gravimetrik Metot	SM 2540 D
	Toplam Çözülmüş Madde (TÇM) Tayini Gravimetrik Metot	SM 2540 C
	Çökebilir Katı Madde (ÇKM) Tayini Hacimsel-Gravimetrik Metot	SM 2540 F
	Çözülmüş Oksijen Tayini Elektrokimyasal Sonda Metodu	TS EN ISO 5814
	Sülfür Tayini Titrimetrik Metot	SM 4500-S ²⁻ F
	Sülfür ve Siyanür Tayini IC Metodu	İşletme İçi Metot - KYTÇ 721-10 Rev:1 (Journal of Chromatography A, 1023 (2004) / s:105-112'den uyarlanmıştır.)
	Serbest Klor Tayini Titrimetrik Metot	SM 4500-Cl F
	Toplam Klor Tayini Titrimetrik Metot	SM 4500-Cl F
	Su	Klorür Tayini Titrimetrik Metot
Kimyasal Oksijen İhtiyacı (KOİ) Tayini Açık Refleks Titrimetrik Metot		SM 5220 B

Akreditasyon Sertifikası Eki (Sayfa 2/28)


Akreditasyon Kapsamı

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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Su Devam)	Kimyasal Oksijen İhtiyacı (KOİ) Tayini Kapalı Refleks Titrimetrik Metot	SM 5220 C
	Biyolojik Oksijen İhtiyacı (BOİ) Tayini 5 Günlük BOİ Testi	SM 5210 B
	Renk Tayini Spektrofotometrik Metot	SM 2120 C
	Bulanıklık Tayini Nefelometrik Metot	SM 2130 B
	Nitrit/Nitrit Azotu Tayini Spektrofotometrik Metot	SM 4500-NO ₂ ⁻ B
	Sülfid Tayini Titrimetrik Metot	SM 4500-SO ₃ ²⁻ B
	Krom (VI) Tayini Spektrofotometrik Metot	SM 3500-Cr B
	Krom (VI) Tayini IC Metodu	SM 3500-Cr C
Su	Toplam Siyanür Tayini Ön İşlem: Distilasyon Metodu Ölçüm: Spektrofotometrik Metot	SM 4500-CN C SM 4500-CN E
	Su	Serbest Siyanür Tayini Spektrofotometrik Metot
Sülfat Tayini Spektrofotometrik Metot		SM 4500-SO ₄ ²⁻ E
Toplam Fosfor Tayini Ön İşlem: Özütleme Metodu Ölçüm: Spektrofotometrik Metot		SM 4500-P B SM 4500-P E
Bromat ve Klorat Tayini IC Metodu		SM 4110 D
Alkalinite Tayini Titrimetrik Metot		SM 2320 B
Sertlik Tayini EDTA Titrimetrik Metot		SM 2340 C
Toplam Kjeldahl Azotu (TKN) Tayini Makro Kjeldahl Metodu		SM 4500-N _{org} B
Amonyum/Amonyum Azotu Tayini Ön İşlem: Distilasyon Metodu Ölçüm: Spektrofotometrik Metot		SM 4500-NH ₃ B SM 4500-NH ₃ F
Toplam Organik Karbon (TOK) / Çözülmüş Organik Karbon (ÇOK) Tayini Yüksek Sıcaklıkta Yakma Metodu		SM 5310 B
Hidrokarbonlar Tayini Ön İşlem: Sokslet Ekstraksiyon Metodu Ölçüm: Gravimetrik Metot		SM 5520 D ve F

Akreditasyon Sertifikası Eki (Sayfa 3/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Su Devam)	Hidrokarbon Yağ İndeksi Tayini Ön İşlem: Solvent Ekstraksiyon Ön İşlem: Mikro Ayırıcı Ön İşlem: Florisil Temizleme GC-FID Metodu	TS EN ISO 9377-2
	Yüzey Aktif Madde (MBAS) Tayini Ön İşlem: Sublation Aparatı ile Ayırma Ölçüm: Spektrofotometrik Metot	SM 5540 B SM 5540 C
	Permanganat İndeksi Tayini Titrimetrik Metot	TS 6288 EN ISO 8467
	Klorofil-a Tayini Spektrofotometrik Metot	SM 10200 H
	Florür, Klorür, Nitrit, Nitrat, Fosfat, Bromür, Sülfat Tayini IC Metodu	SM 4110 B
	Lityum, Sodyum, Amonyum, Kalsiyum, Magnezyum, Potasyum Tayin IC Metodu	TS EN ISO 14911
	Fenol Tayini Ön İşlem: Distilasyon Metodu Ölçüm: Spektrofotometrik Metot	SM 5530 B SM 5530 D
	Fenol Tayini HPLC/UV Metot	İşletme İçi Metot KYTÇ 721-41, Rev:1 (OSHA Method 32'den uyarlanmıştır).
	Gümüş (Ag), Alüminyum (Al), Arsenik (As), Bor (B), Baryum (Ba), Berilyum (Be), Kalsiyum (Ca), Kadmiyum (Cd), Kobalt (Co), Krom (Cr), Bakır (Cu), Demir (Fe), Potasyum (K), Lityum (Li), Magnezyum (Mg), Mangan (Mn), Molibden (Mo), Sodyum (Na), Nikel (Ni), Kurşun (Pb), Antimon (Sb), Selenyum (Se), Stronsiyum (Sr), Vanadyum (V), Çinko (Zn), Fosfor (P), Bizmut (Bi), Kalay (Sn), Silisyum (Si), Titanyum (Ti), Sülfür (S) Tayini Ön İşlem: Asitle Özütleme Ön İşlem: Nitrik asit ile Özütleme Ön İşlem: Hidroklorik asit ile Özütleme Ölçüm: ICP-OES Metodu	SM 3030 C SM 3030 D SM 3030 E SM 3030 F SM 3120 B TS EN ISO 11885
	Gümüş (Ag), Alüminyum (Al), Arsenik (As), Bor (B), Baryum (Ba), Berilyum (Be), Kadmiyum (Cd), Kobalt (Co), Krom (Cr), Bakır (Cu), Demir (Fe), Cıva (Hg), Lityum (Li), Mangan (Mn), Molibden (Mo), Nikel (Ni), Kurşun (Pb), Antimon (Sb), Selenyum (Se), Stronsiyum (Sr), Vanadyum (V), Çinko (Zn), Fosfor (P), Bizmut (Bi), Kalay (Sn) Tayini Ön İşlem: Asitle Özütleme Ön İşlem: Nitrik asit ile Özütleme Ön İşlem: Hidroklorik asit ile Özütleme Ölçüm: ICP-MS Metodu	SM 3030 C SM 3030 D SM 3030 E SM 3030 F EPA 200.8 EPA 6020 B TS EN ISO 17294 (1-2)
	Arsenik (As) Tayini ICP-OES Hidrür Metodu	İşletme İçi Metot KYTÇ 721-105 Rev:1 (SM 3120 B ve TS EN ISO 11885'den uyarlanmıştır)
	Sıcaklık Tayini Laboratuvar ve Saha Metodu	SM 2550 B

Akreditasyon Sertifikası Eki (Sayfa 4/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Su Devam)	Işık Geçirgenliği/Seki Disk Derinliği Tayini Ölçüm: Disk Metodu	EPA 841-B-97-003
	Hidrazin Tayini Spektrofotometrik Metot	ASTM D 1385-07
	Debi Ölçümü Debi Metodu	EPA 841-B-97-003
	Toplam Pestisit Tayini (1,3,5-Trichlorobenzene, Alpha-BHC, 1,2,4-Trichlorobenzene, Gamma-BHC, 1,2,3-Trichlorobenzene, Pentachlorobenzene Hexachlorobenzene, Beta-BHC, Delta-BHC Pentachloronitrobenzene Heptachlor, Aldrin, Isodrin, Heptachlorepoxyde, Trans chlordane, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 2,4'-DDT, Endrin Aldehyde, Endosulfan sulfate, 4,4'-DDT, Parathion Ethyl, Dichlorvos) Ön İşlem: Katı Faz Ekstraksiyon Metodu Ön İşlem: Silikajel Temizleme Ölçüm: GC-ECD Metodu	EPA 3535 A EPA 3630 C EPA 8121 EPA 8081 B EPA 8141 B
	Adsorblanabilen Organik Halojenler (AOX) Tayini Mikrokulometrik Metot	EPA 1650
	Toplam Organik Halojenlerin (TOX) Tayini Mikrokulometrik Metot	EPA 9020 B

Akreditasyon Sertifikası Eki (Sayfa 5/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Su Devam)	<p>Uçucu Organik Bileşiklerin (VOC) Tayini Vinyl chloride (Chloroethene), Chloroform (Trichloromethane), Benzene, 1,2-Dichloroethane, Trichloroethene, Bromodichloromethane, Tetrachloroethene, Dibromochloromethane, Bromoform (Tribromomethane), Allylchloride (Epichloridine), 1,1-Dichloroethane, trans-1,2-Dichloroethene, Methyl acrylate, Bromochloromethane 1,1,1-Trichloroethane, 1-Chlorobutane, 1,1-Dichloropropene, 1,2-Dichloropropane, Methyl methacrylate, Dibromomethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, 1,1-Dichloropropanone-2, Toluene, trans-1,3-Dichloropropene, Ethyl methacrylate, 1,1,2-Trichloroethane, 1,3-Dichloropropane, 2-Hexanone, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Ethyl benzene, m+p-Xylene, o-Xylene, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, Bromobenzene, trans-1,4-Dichloro-2-butene, 1,2,3-Trichloropropane, n-Propylbenzene, 2-Chlorotoluene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 4-Chlorotoluene, tert-Butyl benzene, p-Isopropyl toluene, Pentachloroethane, sec-Butyl benzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, n-Butyl benzene, 1,2-Dichlorobenzene, Carbon tetrachloride, Hexachloroethane, 1,2-Dibromo-3-chloropropane, Nitrobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, 1,2,3-Trichlorobenzene</p> <p>Ön İşlem: Purge&Trap Ölçüm: GC/MS Metodu</p>	EPA 5030 C EPA 8260 D
	<p>Fenollerin Tayini 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol</p> <p>Ön İşlem: Katı Faz Ekstraksiyon Ön İşlem: Silikajel Temizleme Ölçüm: GC-MS Metodu</p>	EPA 3535 A EPA 3630 C EPA 8270 E
	<p>Poliklorlubifenillerin (PCBs) Tayini (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194)</p> <p>Ön İşlem: Sıvı Sıvı Ekstraksiyon Metodu Ön İşlem: Silikajel Temizleme Ölçüm: GC/ECD Metodu</p>	TS 2627 EN ISO 6468

Akreditasyon Sertifikası Eki (Sayfa 6/28)


Akreditasyon Kapsamı

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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Su Devam)	PAH (Poliaromatik Hidrokarbonların) Tayini Naphthalene, Acenaphthalene, Acenaphthene, Flourene, Phenanthrene, Anthrecene, Flouranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)flouranthene Benzo(k)flouranthene, Benzo(a)pyrene, Dibenzo(a,h)anthrecene, Benzo (g,h,i) perylene, Indeno (1,2,3-cd) pyrene Ön İşlem: Katı Faz Ekstraksiyon Ön İşlem: Silikajel Temizleme Ölçüm: GC/MS Metodu	EPA 3535 A EPA 3630 C EPA 8270 E
	Sülfite Tayini IC Metodu	TS EN ISO 10304-3
	Ftalat Esterlerinin Tayini (Dimethyl phthalate, Diethyl phthalate, Di-n-butyl phthalate, Benzyl butyl phthalate, bis (2-ethylhexyl) phthalate, Di-n-octyl phthalate) Ön işlem: Katı Faz Ekstraksiyonu Ön İşlem: Alümina Temizleme Ön İşlem: Florisil Temizleme Ölçüm: GC-MS Metodu	EPA 3535 A EPA 3610 B EPA 3620 C EPA 8270 E
	Kalaylı Organik Bileşiklerin Tayini (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Monooctyltin, Dioctyltin, Triphenyltin, Tricyclohexyltin) Ön İşlem: Türevleştirme Metodu Ön İşlem: Sıvı-Sıvı Ekstraksiyon Metodu Ön İşlem: Silikajel/Alumina Temizleme Metodu Ölçüm: GC-MS Metodu	TS EN ISO 17353
	Koliform Bakteri Sayımı EMS Tekniği	SM 9221 B
	Fekal Koliform Sayımı EMS Tekniği	SM 9221 E
	<i>Escherichia coli</i> Sayımı EMS Tekniği	SM 9221 F
	Koliform Bakteri Sayımı Membran Filtrasyon Tekniği	SM 9222 B
	Fekal Koliform Sayımı Membran Filtrasyon Tekniği	SM 9222 D
	<i>Escherichia coli</i> Sayımı Membran Filtrasyon Tekniği	SM 9222 H
	Koloni Sayımı (22 °C)	TS EN ISO 6222
	Koloni Sayımı (37 °C)	TS EN ISO 6222
	<i>Pseudomonas aeruginosa</i> Sayımı Membran Filtrasyon Tekniği	TS EN ISO 16266

Akreditasyon Sertifikası Eki (Sayfa 7/28)


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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Su Devam)	Fekal Enterokokların Sayımı EMS Tekniği	SM 9230 B
	Fekal Enterokokların Sayımı Membran Filtrasyon Tekniği	TS EN ISO 7899-2
	<i>Salmonella</i> spp. Aranması	TS EN ISO 19250
	<i>Legionella</i> Sayımı Membran Filtrasyon Tekniği	ISO 11731
Atıksu	Numune Alma Teknikleri	TS ISO 5667-10
	pH Tayini Elektrometrik Metot	SM 4500 H ⁺ B
	Toplam Katı Madde Tayini Gravimetrik Metot	SM 2540 B
	İletkenlik Tayini Laboratuvar Metodu	SM 2510 B
	Yağ ve Gres Tayini	SM 5520 D
	Ön İşlem: Sokslet Ekstraksiyon Metodu Ölçüm: Gravimetrik Metot	
	Askıda Katı Madde (AKM) Tayini Gravimetrik Metot	SM 2540 D
	Toplam Çözünmüş Madde (TÇM) Tayini Gravimetrik Metot	SM 2540 C
	Çökebilir Katı Madde (ÇKM) Tayini Hacimsel-Gravimetrik Metot	SM 2540 F
	Çözünmüş Oksijen Tayini Elektrokimyasal Sonda Metodu	TS EN ISO 5814
Atıksu	Sülfür Tayini Titrimetrik Metot	SM 4500-S ²⁻ F
	Sülfür, Siyanür Tayini IC Metodu	İşletme İçi Metot - KYTÇ 721-10 Rev:1 (Journal of Chromatography A, 1023 (2004) / s:105-112'den uyarlanmıştır)
	Serbest Klor Tayini Titrimetrik Metot	SM 4500-Cl F
	Toplam Klor Tayini Titrimetrik Metot	SM 4500-Cl F
Atıksu	Klorür Tayini Titrimetrik Metot	SM 4500-Cl ⁻ B
	Kimyasal Oksijen İhtiyacı (KOİ) Tayini Açık Reflaks-Titrimetrik Metot	SM 5220 B
	Kimyasal Oksijen İhtiyacı (KOİ) Tayini Kapalı Reflaks-Titrimetrik Metot	SM 5220 C
	Biyolojik Oksijen İhtiyacı (BOİ) Tayini 5 Günlük BOİ Testi	SM 5210 B

Akreditasyon Sertifikası Eki (Sayfa 8/28)


Akreditasyon Kapsamı

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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Atıksu Devam)	Renk Tayini Spektrofotometrik Metot	SM 2120 C
	Bulanıklık Tayini Nefelometrik Metot	SM 2130 B
	Nitrit/Nitrit Azotu Tayini Spektrofotometrik Metot	SM 4500-NO ₂ ⁻ B
	Sülfat Tayini Titrimetrik Metot	SM 4500-SO ₃ ²⁻ B
	Krom (VI) Tayini Spektrofotometrik Metot	SM 3500-Cr B
	Krom (VI) Tayini IC Metodu	SM 3500-Cr C
Atıksu	Toplam Siyanür Tayini Ön İşlem: Distilasyon Metodu Ölçüm: Spektrofotometrik Metot	SM 4500-CN C SM 4500-CN E
	Serbest Siyanür Tayini Spektrofotometrik Metot	SM 4500-CN E
Atıksu	Sülfat Tayini Spektrofotometrik Metot	SM 4500-SO ₄ ²⁻ E
	Toplam Fosfor Tayini Ön İşlem: Özütleme Metodu Ölçüm: Spektrofotometrik Metot	SM 4500-P B SM 4500-P E
	Toplam Kjeldahl Azotu (TKN) Tayini Makro Kjeldahl Metodu	SM 4500-N _{org} B
	Amonyum/Amonyum Azotu Tayini Ön İşlem: Distilasyon Metodu Ölçüm: Spektrofotometrik Metot	SM 4500-NH ₃ B SM 4500-NH ₃ F
	Toplam Organik Karbon (TOK) / Çözülmüş Organik Karbon (ÇOK) Tayini Yüksek Sıcaklıkta Yakma Metodu	SM 5310 B
	Hidrokarbonlar Tayini Ön İşlem: Sokslet Ekstraksiyon Metodu Ölçüm: Gravimetrik Metot	SM 5520 D ve F
	Hidrokarbon Yağ İndeksi Tayini Ön İşlem: Solvent Ekstraksiyon Ön İşlem: Mikro Ayrıcı Ön İşlem: Florisil Temizleme GC-FID Metodu	TS EN ISO 9377-2
	Yüzey Aktif Madde (MBAS) Tayini Ön İşlem: Sublation Aparatı ile Ayırma Ölçüm: Spektrofotometrik Metot	SM 5540 B SM 5540 C
	Florür, Klorür, Nitrit, Nitrat, Fosfat, Bromür ve Sülfat Tayini IC Metodu	SM 4110 B

Akreditasyon Sertifikası Eki (Sayfa 9/28)


Akreditasyon Kapsamı

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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Atıksu Devam)	Lityum, Sodyum, Amonyum, Kalsiyum, Magnezyum, Potasyum Tayini IC Metodu	TS EN ISO 14911
	Fenol Tayini Ön İşlem: Distilasyon Metodu Ölçüm: Spektrofotometrik Metot	SM 5530 B SM 5530 D
	Fenol Tayini HPLC / UV Metodu	İşletme İçi Metot KYTÇ 721-41 Rev:1 (OSHA Method 32'den uyarlanmıştır)
	Gümüş (Ag), Alüminyum (Al), Arsenik (As), Bor (B), Baryum (Ba), Berilyum (Be), Kalsiyum (Ca), Kadmiyum (Cd), Kobalt (Co), Krom (Cr), Bakır (Cu), Demir (Fe), Potasyum (K), Lityum (Li), Magnezyum (Mg), Mangan (Mn), Molibden (Mo), Sodyum (Na), Nikel (Ni), Kurşun (Pb), Antimon (Sb), Selenyum (Se), Stronsiyum (Sr), Vanadyum (V), Çinko (Zn), Fosfor (P), Bizmut (Bi), Kalay (Sn), Silisyum (Si), Titanyum (Ti), Sülfür (S) Tayini Ön İşlem: Asitle Özütleme Ön İşlem: Nitrik asit ile Özütleme Ön İşlem: Hidroklorik asit ile Özütleme Ölçüm: ICP-OES Metodu	SM 3030 C SM 3030 D SM 3030 E SM 3030 F SM 3120 B TS EN ISO 11885
Gümüş (Ag), Alüminyum (Al), Arsenik (As), Bor (B), Baryum (Ba), Berilyum (Be), Kadmiyum (Cd), Kobalt (Co), Krom (Cr), Bakır (Cu), Demir (Fe), Civa (Hg), Lityum (Li), Mangan (Mn), Molibden (Mo), Nikel (Ni), Kurşun (Pb), Antimon (Sb), Selenyum (Se), Stronsiyum (Sr), Vanadyum (V), Çinko (Zn), Fosfor (P), Bizmut (Bi), Kalay (Sn) Tayini Ön İşlem: Asitle Özütleme Ön İşlem: Nitrik asit ile Özütleme Ön İşlem: Hidroklorik asit ile Özütleme Ölçüm: ICP-MS Metodu	SM 3030 C SM 3030 D SM 3030 E SM 3030 F EPA 200.8 EPA 6020 B TS EN ISO 17294 (1-2)	
Atıksu	Arsenik (As) Tayini ICP-OES Hidrür Metodu	İşletme İçi Metot KYTÇ 721-105 Rev: 1 (SM 3120 B ve TS EN ISO 11885'ten uyarlanmıştır.)
	Sıcaklık Tayini Laboratuvar ve Saha Metodu	SM 2550 B
	Hidrazin Tayini Spektrofotometrik Metot	ASTM D1385-07
	Debi Ölçümü Debi Metodu	EPA 841-B-97-003

Akreditasyon Sertifikası Eki (Sayfa 10/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Atıksu	Toplam Pestisit Tayini (1,3,5-Trichlorobenzene, Alpha-BHC, 1,2,4-Trichlorobenzene, Gamma-BHC, 1,2,3-Trichlorobenzene, Pentachlorobenzene, Hexachlorobenzene, Beta-BHC, Delta-BHC, Pentachloronitrobenzene, Heptachlor, Aldrin, Isodrin, Heptachlorepoxyde, Trans chlordane, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 2,4'-DDT, Endrin Aldehyde, Endosulfan sulfate, 4,4'-DDT, Parathion Ethyl, Dichlorvos) Ön İşlem: Katı Faz Ekstraksiyon Metodu Ön İşlem: Silikajel Temizleme Ölçüm: GC-ECD Metodu	EPA 3535 A EPA 3630 C EPA 8121 EPA 8081 B EPA 8141 B
Atıksu	Adsorblanabilen Organik Halojenler (AOX) Tayini Mikrokulometrik Metot	EPA 1650
Atıksu	Toplam Organik Halojenlerin (TOX) Tayini Mikrokulometrik Metot	EPA 9020 B
Atıksu	Uçucu Organik Bileşiklerin (VOC) Tayini Vinyl chloride (Chloroethene), Chloroform, (Trichloromethane) Benzene, 1,2-Dichloroethane, Trichloroethene, Bromodichloromethane, Tetrachloroethene, Dibromochloromethane, Bromoform (Tribromomethane), Allylchloride (Epichloridene) 1,1-Dichloroethane, trans-1,2-Dichloroethene, Methyl acrylate, Bromochloromethane, 1,1,1-Trichloroethane, 1-Chlorobutane, 1,1-Dichloropropene, 1,2-Dichloropropane, Methyl methacrylate, Dibromomethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, 1,1-Dichloropropanone-2, Toluene, trans-1,3-Dichloropropene, Ethyl methacrylate, 1,1,2-Trichloroethane, 1,3-Dichloropropane, 2-Hexanone, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Ethyl benzene, m+p-Xylene, o-Xylene, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, Bromobenzene, trans-1,4-Dichloro-2-butene, 1,2,3-Trichloropropane, n-Propylbenzene, 2-Chlorotoluene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 4-Chlorotoluene, tert-Butyl benzene, p-Isopropyl toluene, Pentachloroethane, sec-Butyl benzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, n-Butyl benzene, 1,2-Dichlorobenzene, Carbon tetrachloride, Hexachloroethane, 1,2-Dibromo-3-chloropropane, Nitrobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, 1,2,3-Trichlorobenzene Ön İşlem: Purge&Trap Ölçüm: GC/MS Metodu	EPA 5030 C EPA 8260 D

Akreditasyon Sertifikası Eki (Sayfa 11/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Atıksu	Poliklorlubifenillerin (PCBs) Tayini (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Ön İşlem: Sıvı Sıvı Ekstraksiyon Metodu Ön İşlem: Silikajel Temizleme Ölçüm: GC/ECD Metodu	TS 2627 EN ISO 6468
Atık Su	PAH (Poliaromatik Hidrokarbonların) Tayini Naphthalene, Acenaphthalene, Acenaphthene, Flourene, Phenanthrene, Anthracene, Flouranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)flouranthene, Benzo(k)flouranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Indeno(1,2,3-c-d)pyrene Ön İşlem: Katı Faz Ekstraksiyonu Ön İşlem: Silikajel Temizleme Ölçüm: GC-MS Metodu	EPA 3535 A EPA 3630 C EPA 8270 E
	Sülfit Tayini IC Metodu	TS EN ISO 10304-3
Atıksu	Ftalat Esterlerinin Tayini (Dimethyl phthalate, Diethyl phthalate, Di-n-butyl phthalate, Benzyl buthyl phthalate, bis (2-ethylhexyl) phthalate, Di-n-octyl phthalate) Ön İşlem: Katı Faz Ekstraksiyonu Ön İşlem: Alümina Temizleme Ön İşlem: Florisil Temizleme Ölçüm: GC-MS Metodu	EPA 3535 A EPA 3610 B EPA 3620 C EPA 8270 E
Atıksu	Kalaylı Organik Bileşiklerin Tayini (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Monoocetyltn, Dioctyltin, Triphenyltin, Triclohexyltin) Ön İşlem: Türevleştirme Metodu Ön İşlem: Sıvı-Sıvı Ekstraksiyon Metodu Ön İşlem: Silikajel/Alumina Temizleme Metodu Ölçüm: GC-MS Metodu	TS EN ISO 17353
	Koliform Bakteri Sayımı EMS Tekniği	SM 9221 B
Atıksu	Fekal Koliform Sayımı EMS Tekniği	SM 9221 E
	<i>Escherichia coli</i> Sayımı EMS Tekniği	SM 9221 F
	Koliform Bakteri Sayımı Membran Filtrasyon Tekniği	SM 9222 B
	Fekal Koliform Sayımı Membran Filtrasyon Tekniği	SM 9222 D
	<i>Escherichia coli</i> Sayımı Membran Filtrasyon Tekniği	SM 9222 H
	Koloni Sayımı (22 °C)	TS EN ISO 6222

Akreditasyon Sertifikası Eki (Sayfa 12/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Şğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Atıksu	Koloni Sayımı (37 °C)	TS EN ISO 6222
	<i>Pseudomonas aeruginosa</i> Sayımı Membran Filtrasyon Tekniği	TS EN ISO 16266
	Fekal Enterokokların Sayımı EMS Tekniği	SM 9230 B
	Fekal Enterokokların Sayımı Membran Filtrasyon Tekniği	TS EN ISO 7899-2
	<i>Salmonella</i> spp. Aranması	TS EN ISO 19250
Atıksu	<i>Legionella</i> Sayımı Membran Filtrasyon Tekniği	ISO 11731
Atıksu	Fenollerin Tayini 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Ön İşlem: Katı Faz Ekstraksiyonu Ön İşlem: Silikajel Temizleme Ölçüm: GC-MS Metodu	EPA 3535 A EPA 3630 C EPA 8270 E
Deniz Suyu	Deniz Suyundan Numune Alma	TS ISO 5667- 9
	Toplam Pestisit Tayini (HCH, Dieldrin) Ön İşlem: Katı Faz Ekstraksiyon Metodu Ön İşlem: Silikajel Temizleme Ölçüm: GC-ECD Metodu	EPA 3535 A EPA 3630 C EPA 8081 B EPA 8141 B
	Krom (VI) Tayini Spektrofotometrik Metot	SM 3500 Cr B
Deniz Suyu	Toplam Siyanür Tayini Ön İşlem: Distilasyon Metodu Ölçüm: Spektrofotometrik Metot	SM 4500-CN C SM 4500-CN E
Deniz Suyu	PAH (Poliaromatik Hidrokarbonların) Tayini Naphthalene, Acenaphthalene, Acenaphthane, Flourene, Phenanthrene, Anthrecene, Flouranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)flouranthene, Benzo(k)flouranthene, Benzo(a)pyrene, Dibenzo(a,h)anthrecene, Benzo(g,h,i)perylene, Indeno(1,2,3-c-d)pyrene Ön İşlem : Katı Faz Ekstraksiyonu Ön İşlem: Silikajel Temizleme Ölçüm: GC-MS Metodu	EPA 3535 A EPA 3630 C EPA 8270 E

Akreditasyon Sertifikası Eki (Sayfa 13/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Deniz Suyu Devam)	Arsenik (As), Kadmiyum (Cd), Krom (Cr), Bakır (Cu), Nikel (Ni), Kurşun (Pb), Çinko (Zn) Tayini Ön İşlem: Asitle Özütleme Ön İşlem: Nitrik asit ile Özütleme Ön İşlem: Hidroklorik asit ile Özütleme Ölçüm: ICP-OES Metodu	SM 3030 C SM 3030 D SM 3030 E SM 3030 F SM 3120 B
Deniz Suyu	Arsenik (As), Kadmiyum (Cd), Krom (Cr), Bakır (Cu), Nikel (Ni), Kurşun (Pb), Çinko (Zn), Civa (Hg) Ön İşlem: Asitle Özütleme Ön İşlem: Nitrik asit ile Özütleme Ön İşlem: Hidroklorik asit ile Özütleme Ölçüm: ICP-MS Metodu	SM 3030 C SM 3030 D SM 3030 E SM 3030 F EPA 200.8 EPA 6020 B TS EN ISO 17294 (1/2)
	Amonyum/Amonyum Azotu Tayini Ön İşlem: Distilasyon Metodu Ölçüm: Spektrofotometrik Metot	SM 4500-NH ₃ B SM 4500-NH ₃ F
	Ham Petrol ve Petrol Türevelerinin Tayini Ön İşlem: Solvent Ekstraksiyon Ön İşlem: Mikro Ayrıcı Ön İşlem: Florisil Temizleme GC-FID Metodu	TS EN ISO 9377-2
	Renk Tayini Spektrofotometrik Metot	SM 2120 C
	Toplam Fosfor Tayini Ön İşlem: Özütleme Metodu Ölçüm: Spektrofotometrik Metot	İşletme içi Metot (KYTC 721-26) Rev:1 SM 4500-P B SM 4500-P E
	Çözülmüş Oksijen Tayini Elektrokimyasal Sonda Metodu	TS EN ISO 5814
	Klorofil-a Tayini Spektrofotometrik Metot	SM 10200 H
	Bulanıklık Tayini Nefelometrik Metot	SM 2130 B
	pH Tayini Elektrometrik Metot	SM 4500-H ⁺ B
	Askıda Katı Madde (AKM) Tayini Gravimetrik Metot	SM 2540 D
	Tuzluluk Tayini Elektriksel İletkenlik Metodu	SM 2520 B
	Sıcaklık Tayini Laboratuvar ve Saha Metodu	SM 2550 B
	Toplam Organik Karbon (TOK) / Çözülmüş Organik Karbon (ÇOK) Tayini Yüksek Sıcaklıkta Yakma Metodu	SM 5310 B
	Toplam Kjeldahl Azotu (TKN) Tayini Makro Kjeldahl Metodu	SM 4500-N _{org} B
	Nitrit/Nitrit Azotu Tayini Spektrofotometrik Metot	SM 4500-NO ₂ ⁻ B

Akreditasyon Sertifikası Eki (Sayfa 14/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Deniz Suyu Devam)	Fenol Tayini Ön İşlem: Distilasyon Metodu Analiz: Spektrofotometrik Metot	SM 5530 B SM 5530 D
	Fenol Tayini HPLC/UV Metot	İşletme İçi Metot - KYTÇ 721-41 Rev:1 (OSHA Method 32'den uyarlanmıştır)
	Işık Geçirgenliği/Seki Diski Derinliği Tayini Ölçüm: Disk Metodu	EPA 841-B-97-003
	Yağ ve Gres Tayini Ön İşlem: Sokslet Ekstraksiyon Metodu Ölçüm: Gravimetrik Metot	SM 5520 D
	Kimyasal Oksijen İhtiyacı (KOİ) Tayini Açık Refleks Titrimetrik Metot	TS 2789
	Parçalanabilir Organik Kirlenmelerin Tayini 5-Günlük BÖİ Test Metodu	SM 5210 B
	Nitrat/Nitrat Azotu Tayini Ön İşlem: Kadmium İndirgeme Metodu Ölçüm: Spektrofotometrik Metot	SM 4500 NO ₃ ⁻ E
	Reaktif Silika Tayini Spektrofotometrik Metot	İşletme İçi Metot KYTÇ 721-61 Rev:1 (Methods of Sea Water Analysis Grosshoff K. Kremling K. Ehrhardt.M'dan uyarlanmıştır)
	Çözülmüş İnorganik Fosfor (Ortofosfat) Tayini Spektrofotometrik Metot	İşletme İçi Metot KYTÇ 721-62 Rev:1 (Methods of Sea Water Analysis Grosshoff K. Kremling K. Ehrhardt.M'dan uyarlanmıştır)
	Yüzey Aktif Madde (MBAS) Tayini Ön İşlem: Sublation Aparatı ile Ayırma Ölçüm: Spektrofotometrik Metot	SM 5540 B SM 5540 C

Akreditasyon Sertifikası Eki (Sayfa 15/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Deniz Suyu Devam)	Uçucu Organik Bileşiklerin (VOC) Tayini Vinyl chloride (Chloroethene), Chloroform (Trichloromethane), Benzene, 1,2-Dichloroethane, Trichloroethene, Bromodichloromethane, Tetrachloroethene, Dibromochloromethane, Bromoform (Tribromomethane), Allylchloride (Epichloridine), 1,1-Dichloroethane, trans-1,2-Dichloroethene, Methyl acrylate, Bromochloromethane 1,1,1-Trichloroethane, 1-Chlorobutane, 1,1-Dichloropropene, 1,2-Dichloropropane, Methyl methacrylate, Dibromomethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, 1,1-Dichloropropanone-2, Toluene, trans-1,3-Dichloropropene, Ethyl methacrylate, 1,1,2-Trichloroethane, 1,3-Dichloropropane, 2-Hexanone, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Ethyl benzene, m+p-Xylene, o-Xylene, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, Bromobenzene, trans-1,4-Dichloro-2-butene, 1,2,3-Trichloropropane, n-Propylbenzene, 2-Chlorotoluene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 4-Chlorotoluene, tert-Butyl benzene, p-Isopropyl toluene, Pentachloroethane, sec-Butyl benzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, n-Butyl benzene, 1,2-Dichlorobenzene, Carbon tetrachloride, Hexachloroethane, 1,2-Dibromo-3-chloropropane, Nitrobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, 1,2,3-Trichlorobenzene Ön İşlem: Purge&Trap Ölçüm: GC/MS Metodu	EPA 5030 C EPA 8260 D
	Kalaylı Organik Bileşiklerin Tayini (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Monoöctyltin, Dioctyltin, Triphenyltin, Tricyclohexyltin) Ön İşlem: Türevleştirme Metodu Ön İşlem: Sıvı-Sıvı Ekstraksiyon Metodu Ön İşlem: Silikajel/Alumina Temizleme Metodu Ölçüm: GC-MS Metodu	TS EN ISO 17353
	Fenollerin Tayini 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Ön İşlem: Katı Faz Ekstraksiyonu Ön İşlem: Silikajel Temizleme Ölçüm: GC-MS Metodu	EPA 3535 A EPA 3630 C EPA 8270 E
	Koliform Bakteri Sayımı EMS Tekniği	SM 9221 B

Akreditasyon Sertifikası Eki (Sayfa 16/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Deniz Suyu Devam)	Fekal Koliform Sayımı EMS Tekniği	SM 9221 E
	<i>Escherichia coli</i> Sayımı EMS Tekniği	SM 9221 F
	Koliform Bakteri Sayımı Membran Filtrasyon Tekniği	SM 9222 B
	Fekal Koliform Sayımı Membran Filtrasyon Tekniği	SM 9222 D
	<i>Escherichia coli</i> Sayımı Membran Filtrasyon Tekniği	SM 9222 H
	Koloni Sayımı (22 °C)	TS EN ISO 6222
	Fekal Enterokokların Sayımı EMS Tekniği	SM 9230 B
Deniz Suyu	Koloni Sayımı (37 °C)	TS EN ISO 6222
	Fekal Enterokokların Sayımı Membran Filtrasyon Tekniği	TS EN ISO 7899-2
	<i>Salmonella</i> spp. Aranması	TS EN ISO 19250
	<i>Legionella</i> Sayımı Membran Filtrasyon Tekniği	ISO 11731
	<i>Pseudomonas aeruginosa</i> Sayımı Membran Filtrasyon Tekniği	TS EN ISO 16266
Atık	Katı Atıklardan Numune Alma	TS 12090
Atık	Toplam Organik Karbon Tayini Walkley Black Metodu	İşletme İçi Metot - KYTT 721-4 Rev:1 (TS 8336'den uyarlanmıştır)
Atık	BTEX (Benzen, Toluen, Etil Benzen, Ksilen) Tayini Ön İşlem: Headspace ölçüm: GC-MS Metodu	EPA 5021 A EPA 8260 D
Atık	Poliklorlubifenillerin (PCBs) Tayini (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Ön İşlem: PFE Ön İşlem: Kükürt Temizleme Ön İşlem: Silikajel Temizleme Ölçüm: GC/ECD Metodu	EPA 3545 A EPA 3660 B EPA 3630 C EPA 8082A TS EN 17322
Atık	C10-C40 Aralığındaki Hidrokarbonların Tayini Ön İşlem: Numune Hazırlama Ön İşlem: Ekstraksiyon Ön İşlem: Florisil Temizleme Ölçüm: GC-FID Metodu	TS EN 14039 TS ISO 14507 TS EN ISO 16703
Atık	Kuru Kütleli Kızdırma Kaybının Tayini Gravimetrik Metot	TS EN 12879 ASTM D 7348
Atık	Kuru Madde (%) Muhtevası / Nem (%) Tayini Gravimetrik Metot	TS 9546 EN 12880

Akreditasyon Sertifikası Eki (Sayfa 17/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Atık	Fenol İndeksi Tayini Ön İşlem: Katıdan Özütleme Metodu Ön İşlem: Distilasyon Metodu Ölçüm: Spektrofotometrik Metot	TS EN 12457-4 SM 5530 B SM 5530 D
Atık	Çözülmüş Organik Karbon (ÇOK) Tayini Ön İşlem: Katıdan Özütleme Metodu Ölçüm: Yüksek Sıcaklıkta Yakma Metodu	TS EN 12457-4 SM 5310 B
Atık	Bakır (Cu), Kadmiyum (Cd), Kurşun (Pb), Arsenik (As), Molibden (Mo), Nikel (Ni), Antimon (Sb), Selenyum (Se), Krom (Cr), Çinko (Zn), Baryum (Ba) Tayini Ön İşlem: Katıdan Özütleme Metodu Ön İşlem: Mikrodalga ile Özütleme Metodu Ön İşlem: Filtrasyon Ölçüm: ICP-OES Metodu	TS EN 12457-4 SM 3030 K SM 3120 B
Atık	Florür, Klorür, Sülfat Tayini Ön İşlem: Katıdan Özütleme Metodu Ölçüm: IC Metodu	TS EN 12457-4 SM 4110 B
Atık	pH tayini Ön İşlem: Katıdan Özütleme Metodu Ölçüm: Elektrometrik Metot	TS EN 12457-4 SM 4500 H* B
Atık	İletkenlik Tayini Ön İşlem: Katıdan Özütleme Metodu Ölçüm: Laboratuvar Metodu	TS EN 12457-4 SM 2510 B
Atık	Toplam Çözülmüş Madde Tayini Ön İşlem: Katıdan Özütleme Metodu Ölçüm: Gravimetrik Metot	TS EN 12457-4 SM 2540 C
Atık	Civa (Hg) Tayini Ön İşlem: Katıdan Özütleme Metodu Ön İşlem: Mikrodalga ile Özütleme Metodu Ön İşlem: Filtrasyon Ölçüm: ICP-OES Metodu	TS EN 12457-4 SM 3030 K EPA 200.7
Atık	Kalaylı Organik Bileşiklerin Tayini (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Monoötyl, Dioctyltin, Triphenyltin, Tricyclohexyltin) Ön İşlem: Katıdan Özütleme Metodu Ön İşlem: Silikajel/Alumina Temizleme Metodu Ölçüm: GC-MS Metodu	TS EN 12457-4 ISO 17353
Toprak	Yüzey Toprakta Numune Alma, Numunelerin Taşınma ve Muhafazası	TS ISO 18400-104 TS ISO 18400-202 TS ISO 18400-205
Toprak	Poliklorlubifenillerin (PCBs) Tayini (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Ön İşlem: PFE Ön İşlem: Kükürt Temizleme Ön İşlem: Silikajel Temizleme Ölçüm: GC/ECD Metodu	EPA 3545 A EPA 3660 B EPA 3630 C EPA 8082A TS EN 17322
Toprak	Kuru Madde Miktarı ve Nem Tayini Gravimetrik Metot	TS ISO 11465 TS ISO 11465/Cor.1

Akreditasyon Sertifikası Eki (Sayfa 18/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Toprak	Organik Madde Tayini Walkley-Black Metodu	İşletme İçi Metot - KYTT 721-4 Rev:1 (TS 8336'den uyarlanmıştır)
Toprak	BTEX (Benzen, Toluen, Etil Benzen, Ksilen) Tayini Ön İşlem: Headspace Ölçüm: GC-MS Metodu	EPA 5021 A EPA 8260 D
Toprak	Adsorblanabilen Organik Halojenlerin Tayini (AOX) Mikrokulometrik Metot	İşletme İçi Metot -KYTÇ 721-74 Rev:1 (DIN 38414 Bölüm 18'den uyarlanmıştır)
Toprak	Toplam Organik Halojenlerin (TOX) Tayini Mikrokulometrik Metot	EPA 1649
Toprak	PAH (Poliaromatik Hidrokarbonlar) Tayini Naphthalene, Acenaphthalene, Acenaphthene, Flourene, Phenanthrene, Anthrecene, Flouranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)flouranthene, Benzo(k)flouranthene, Benzo(a)pyrene, Dibenzo(a,h)anthrecene, Benzo(g,h,i)perylene, Indeno(1,2,3-c-d)pyrene Ön İşlem: PFE Ön İşlem: Silikajel Temizleme Ölçüm: GC/MS Metodu	EPA 3545 A EPA 3630 C EPA 8270 E
Toprak	C10-C40 Aralığındaki Hidrokarbonların Tayini Ön İşlem: Numune Hazırlama Ön İşlem: Ekstraksiyon Ön İşlem: Florisil Temizleme Ölçüm: GC-FID Metodu	TS ISO 14507 TS EN 14039 TS EN ISO 16703
Toprak	Yağ - Gres Tayini Ön İşlem: Sokslet Ekstraksiyon Ölçüm: Gravimetrik Metot	EPA 9071 B
Toprak	Azot Tayini Geliştirilmiş Kjeldahl Metodu	TS 8337 ISO 11261
Toprak	Yanma Kaybı Tayini (550 ± 25)°C Gravimetrik Metot	TS EN 12879 ASTM D 7348
Toprak	Sodyum (Na), Potasyum (K), Kalsiyum (Ca), Magnezyum (Mg), Alüminyum (Al), Bakır (Cu), Demir (Fe), Baryum (Ba), Çinko(Zn), Kadmium (Cd), Kalay (Sn), Krom (Cr), Kurşun (Pb), Arsenik (As), Molibden (Mo), Kobalt (Co), Nikel (Ni), Lityum (Li), Mangan (Mn), Berilyum (Be), Antimon (Sb), Stronsiyum (Sr), Vanadyum (V), Titanyum (Ti), Bor (B), Fosfor (P), Talyum (Tl), Selenyum (Se) Tayini Ön İşlem: Mikrodalga ile Özütleme Metodu Ölçüm: ICP-OES Metodu	EPA 3051 A EPA 6010 D TS EN 13650
Toprak	Toplam Tuz Miktarı Tayini	TS 8334
Toprak	pH Tayini Elektrometrik Metot	TS ISO 10390

Akreditasyon Sertifikası Eki (Sayfa 19/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Toprak	Fenollerin Tayini 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOG (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Ön İşlem: PFE Ön İşlem: Silikajel Temizleme Ölçüm: GC-MS Metodu	EPA 3545 A EPA 3630 C EPA 8270 E
Toprak	Pestisitlerin Tayini 1,3,5-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene, Pentachlorobenzene, Hexachlorobenzene, Pentachloronitrobenzene, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Heptachlor, Aldrin, Isodrin, Heptachlorepoxyde, Trans chlordane, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 2,4'-DDT, Endrin Aldehyde, Endosulfan sulfate, 4,4'-DDT, Dichlorvos Ön İşlem: Ultrasonik Ekstraksiyon Ön İşlem: Kükürt Temizleme Ön İşlem: Silikajel Temizleme Ölçüm: GC-ECD Metodu	EPA 3550 C EPA 3660 B EPA 3630 C EPA 8121 EPA 8081 B EPA 8141 B
	Civa (Hg) Tayini Ön İşlem: Mikrodalga ile Özütleme Metodu Ölçüm: ICP-OES Metodu	EPA 3051 A EPA 6010 D
Aritma Çamuru	Kanalizasyon ve Su Aritma Tesislerinden Çamur Numunesi Alma	TS EN ISO 5667-13
Aritma Çamuru	Poliklorlubifenillerin (PCBs) Tayini (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Ön İşlem: PFE Ön İşlem: Kükürt Temizleme Ön İşlem: Silikajel Temizleme Ölçüm: GC/ECD Metodu	EPA 3545 A EPA 3660 B EPA 3630 C EPA 8082A TS EN 17322
	Kuru Madde (%) Muhtevası / Nem (%) Tayini Gravimetrik Metot	TS 9546 EN 12880
	Organik Madde Tayini Walkley-Black Metodu	İşletme İçi Metot KYTT 721-4 Rev:1 (TS 8336'den uyarlanmıştır)
Aritma Çamuru	BTEX (Benzen, Toluen, Etil Benzen, Ksilen) Tayini Ön İşlem: Headspace Ölçüm: GC-MS Metodu	EPA 5021 A EPA 8260 D
Aritma Çamuru	Adsorblanabilen Organik Halojenlerin Tayini (AOX) Mikrokulometrik Metot	İşletme İçi Metot KYTÇ 721-74 Rev: 1 (DIN 38414 Bölüm 18'den uyarlanmıştır)
	Toplam Organik Halojenlerin (TOX) Tayini Mikrokulometrik Metot	EPA 1649

Akreditasyon Sertifikası Eki (Sayfa 20/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Aritma Çamuru	PAH (Poliaromatik Hidrokarbonlar) Tayini Naphthalene, Acenaphthalene, Acenaphthene, Flourene, Phenanthrene, Anthrecene, Flouranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)flouranthene, Benzo(k)flouranthene, Benzo(a)pyrene, Dibenzo(a,h)anthrecene, Benzo(g,h,i)perylene, Indeno(1,2,3-c-d)pyrene Ön İşlem: PFE Ön İşlem: Silikajel Temizleme Ölçüm: GC-MS Metodu	EPA 3545 A EPA 3630 C EPA 8270 E
Aritma Çamuru	C10-C40 Aralığındaki Hidrokarbonların Tayini Ön İşlem: Numune Hazırlama Ön İşlem: Ekstraksiyon Ön İşlem: Florisil Temizleme Ölçüm: GC-FID Metodu	TS ISO 14507 TS EN 14039 TS EN ISO 16703
Aritma Çamuru	Yağ-Gres Tayini Ön İşlem: Sokslet Ekstraksiyon Ölçüm: Gravimetrik Metot	EPA 9071 B
	Azot Tayini Geliştirilmiş Kjeldahl Metodu	TS 8337 ISO 11261
	Kuru Kütleinin Kızdırma Kaybının Tayini Gravimetrik Metot	TS EN 12879 ASTM D 7348
	Sodyum (Na), Potasyum (K), Kalsiyum (Ca), Magnezyum (Mg), Alüminyum (Al), Bakır (Cu), Demir (Fe), Baryum (Ba), Çinko(Zn), Kadmiyum (Cd), Kalay (Sn), Krom (Cr), Kurşun (Pb), Arsenik (As), Molibden (Mo), Kobalt (Co), Nikel (Ni), Lityum (Li), Mangan (Mn), Berilyum (Be), Antimon (Sb), Stronsiyum (Sr), Vanadyum (V), Titanyum (Ti), Bor (B), Fosfor (P), Talyum (Tl), Selenyum (Se) Tayini Ön İşlem: Mikrodalga ile Özütleme Metodu Ölçüm: ICP-OES Metodu	EPA 3051 A EPA 6010 D TS EN 13650
Aritma Çamuru	Toplam Tuz Miktarı Tayini	TS 8334
Aritma Çamuru	pH Tayini Elektrometrik Metot	TS EN 15933
Aritma Çamuru	Fenollerin Tayini 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Ön İşlem: PFE Ön İşlem: Silikajel Temizleme Ölçüm: GC-MS Metodu	EPA 3545 A EPA 3630 C EPA 8270 E

Akreditasyon Sertifikası Eki (Sayfa 21/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Şğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Aritma Çamuru	Pestisitlerin Tayini 1,3,5-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene, Pentachlorobenzene, Hexachlorobenzene, Pentachloronitrobenzene, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Heptachlor, Aldrin, Isodrin, Heptachlorepoxyde, Trans chlordane, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 2,4'-DDT, Endrin Aldehyde, Endosulfan sulfate, 4,4'-DDT, Dichlorvos Ön İşlem: Ultrasonik Ekstraksiyon Ön İşlem: Kükürt Temizleme Ön İşlem: Silikajel Temizleme Ölçüm: GC-ECD Metodu	EPA 3550 C EPA 3660 B EPA 3630 C EPA 8121 EPA 8081 B EPA 8141 B
	Civa (Hg) Tayini Ön İşlem: Mikroalga ile Özütleme Metodu Ölçüm: ICP-OES Metodu	EPA 3051 A EPA 6010 D
Aritma Çamuru	Koliform Bakteri Sayımı EMS Tekniği	SM 9221 A, B
Aritma Çamuru	Fekal Koliform Sayımı EMS Tekniği	SM 9221 A, E
Aritma Çamuru	<i>Escherichia coli</i> Sayımı EMS Tekniği	SM 9221 A, F
Sediment	Dip Sedimentlerinden Numune Alma	TS ISO 5667-12
Sediment	Poliklorlubifenillerin (PCBs) Tayini (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Ön İşlem: PFE Ön İşlem: Kükürt Temizleme Ön İşlem: Silikajel Temizleme Ölçüm: GC/ECD Metodu	EPA 3545 A EPA 3660 B EPA 3630 C EPA 8082 A TS EN 17322
	Kuru Madde (%) Muhtevası / Nem (%) Tayini Gravimetrik Metot	SM 2540 G
Sediment	Organik Madde Tayini Walkley-Black Metodu	İşletme İçi Metot KYTT 721-4 Rev:1 (TS 8336'den uyarlanmıştır)
Sediment	BTEX (Benzen, Toluen, Etil Benzen, Ksilen) Tayini Ön İşlem: Headspace Ölçüm: GC/MS Metodu	EPA 5021 A EPA 8260 D
Sediment	Adsorblanabilen Organik Halojenlerin Tayini (AOX) Mikrokulometrik Metot	İşletme İçi Metot KYTÇ 721-74 Rev:1 (DIN 38414 Bölüm 18'den uyarlanmıştır)
Sediment	Toplam Organik Halojenlerin (TOX) Tayini Mikrokulometrik Metot	EPA 1649

Akreditasyon Sertifikası Eki (Sayfa 22/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Şğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Sediment	PAH (Poliaromatik Hidrokarbonlar) Tayini Naphthalene, Acenaphthalene, Acenaphthene, Flourene, Phenanthrene, Anthrecene, Flouranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)flouranthene, Benzo(k)flouranthene, Benzo(a) pyrene, Dibenzo(a,h)anthrecene, Benzo(g,h,i)perylene, Indeno(1,2,3-c-d)pyrene Ön İşlem: PFE Ön İşlem: Silikajel Temizleme Ölçüm: GC/MS Metodu	EPA 3545 A EPA 3630 C EPA 8270 E
Sediment	C10-C40 Aralığındaki Hidrokarbonların Tayini Ön İşlem: Numune Hazırlama Ön İşlem: Ekstraksiyon Ön İşlem: Florisil Temizleme Ölçüm: GC-FID Metodu	TS ISO 14507 TS EN 14039 TS EN ISO 16703
Sediment	Yağ - Gres Tayini Ön İşlem: Sokslet Ekstraksiyon Ölçüm: Gravimetrik Metot	EPA 9071 B
	Azot Tayini Geliştirilmiş Kjeldahl Metodu	TS 8337 ISO 11261
	Kuru Kütleinin Kızdırma Kaybının Tayini Gravimetrik Metot	TS EN 12879 ASTM D 7348
	Sodyum (Na), Potasyum (K), Kalsiyum (Ca), Magnezyum (Mg), Alüminyum (Al), Bakır (Cu), Demir (Fe), Baryum (Ba), Çinko(Zn), Kadmiyum (Cd), Kalay (Sn), Krom (Cr), Kurşun (Pb), Arsenik (As), Molibden (Mo), Kobalt (Co), Nikel (Ni), Lityum (Li), Mangan (Mn), Berilyum (Be), Antimon (Sb), Stronsiyum (Sr), Vanadyum (V), Titanyum (Ti), Bor (B), Fosfor (P), Talyum (Tl), Selenyum (Se) Tayini Ön İşlem: Mikrodalga ile Özütleme Metodu Ölçüm: ICP-OES Metodu	EPA 3051 A EPA 6010 D TS EN 13650
Sediment	pH Tayini Elektrometrik Metot	TS EN 15933
Sediment	Fenollerin Tayini 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Ön İşlem: PFE Ön İşlem: Silikajel Temizleme Ölçüm: GC-MS Metodu	EPA 3545 A EPA 3630 C EPA 8270 E

Akreditasyon Sertifikası Eki (Sayfa 23/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Sediment	Pestisitlerin Tayini 1,3,5-Trichlorobenzene, 1,2,4-Trichlorobenzene,1,2,3-Trichlorobenzene, Pentachlorobenzene, Hexachlorobenzene, Pentachloronitrobenzene, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Heptachlor, Aldrin, Isodrin, Heptachlorepoide, Trans chlordane, Endosulfan I ,Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 2,4'-DDT, Endrin Aldehyde, Endosulfan sulfate, 4,4'-DDT, Dichlorvos Ön İşlem: Ultrasonik Ekstraksiyon Ön İşlem: Kükürt Temizleme Ön İşlem: Silikajel Temizleme Ölçüm: GC-ECD Metodu	EPA 3550 C EPA 3660 B EPA 3630 C EPA 8121 EPA 8081 B EPA 8141 B
	Civa (Hg) Tayini Ön İşlem: Mikrodalga ile Özütleme Metodu Ölçüm: ICP-OES Metodu	EPA 3051 A EPA 6010 D
Biyota	Sodyum (Na), Potasyum (K), Kalsiyum (Ca), Magnezyum (Mg), Alüminyum (Al), Bakır (Cu), Demir (Fe), Baryum (Ba), Gümüş (Ag), Çinko(Zn), Kadmiyum (Cd), Kalay (Sn), Krom (Cr), Kurşun (Pb), Arsenik (As), Molibden (Mo), Kobalt (Co), Nikel (Ni), Lityum (Li), Mangan (Mn), Berilyum (Be), Antimon (Sb), Stronsiyum (Sr), Vanadyum (V), Titanyum (Ti), Bizmut (Bi), Bor (B), Fosfor (P), Kükürt (S), Selenyum (Se) Tayini Ön İşlem: Mikrodalga ile Özütleme Metodu Ölçüm: ICP-OES Metodu	EPA 3051 A TS EN 13650 TS EN ISO 11885
Hayvansal ve Bitkisel Katı ve Sıvı Yağlar	Kurşun (Pb), Demir (Fe), Bakır (Cu), Arsenik (As) Tayini ICP-OES metodu	İşletme İçi Metot (KYTG 721-319 Rev:1) (Iva Juranovic Cindric , Michaela Zeiner , Ilse Steffan Microchemical Journal 85 (2007)'den modifiye edilmiştir.)
Bitkisel Yağ	Serbest Yağ Asitleri Tayini Titrimetrik Metot	AOAC 940.28
	Peroksit Tayini Titrimetrik Metot	AOAC 965.33
	Yağ Asitleri Kompozisyonu (% m/m MetilEsterleri) Tayini (Kaproik Asit(C6:0), Kaprilik Asit(C8:0), Kaprik Asit (C10:0),Undekanoik Asit(C11:0), Laurik Asit(C12:0), Miristik Asit(C14:0), Palmitik Asit(C16:0), Palmitoleik Asit (C16:1), Heptadekanoik Asit(C17:0), Heptadesenoik Asit(C17:1), Stearik Asit(C18:0), Oleik Asit (C18:1n9c), Linoleik Asit(C18:2n6c), Linolenik Asit(C18:3n3), Arasidik Asit(C20:0), Gadoleik Asit(C20:1), Eikosadienoik Asit (C20:2), Behenik Asit(C22:0), Erusik Asit(C22:1), Dokosadienoik Asit(C22:2), Lignoserik Asit (C24:0), Nervonik Asit (C24:1n9) GC-FID Metodu	EEC 2568/91 (Annex X A and X B)
	Trans-Doymamış Yağ Asitlerinin Tayini (C18:1 T, C18:2 T + C18:3 T) GC-FID Metodu	COI/T.20/Doc. No 33 EEC 2568/91 (Annex X A and X B)
Stigmastadien Miktarı Tayini GC-FID Metodu	COI/T.20/Doc. No: 11	

Akreditasyon Sertifikası Eki (Sayfa 24/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Zeytinyağı	Sterol Kompozisyonu ve Miktarının Tayini (Kolesterol, Brassikasterol, Kampesterol, Kampestanol, Stigmasterol, Delta-5,23-Stigmastadienol, Klerosteol, Beta-sitosterol, Sitostanol, Delta-5-Avenasterol, Delta-5,24-Stigmastadienol, Delta-7-Stigmasterol, Toplam Sterol) GC-FID Metodu	EEC 2568/91 (Annex V)
	Eritrodil ve Uvaol (Toplam Steroller İçinde) İçeriğinin Tayini GC-FID Metodu	EEC 2568/91 (Annex VI)
	UV'de Özgül Soğurma Analizi Spektrofotometrik Metot	EEC 2568/91 (Annex IX) EEC 299/2013
	Tohum Yağlarının Tespiti, Gerçek ve Teorik ECN42 Trigliserid İçeriği Arasındaki Maksimum Farkın Tayini HPLC-RID GC-FID Metodu	COI/T.20/Doc. No.20 EEC 2568/91 (Annex XVIII)
	Mumsu Madde İçeriğinin Belirlenmesi (C40+C42+C44+C46) GC-FID Metodu	COI/T.20/Doc.No.18-28 EEC 2568/91 (Annex IV)
	α -Tokoferol Tayini HPLC-FLD Metodu	AOCS Ce 8-89
	Trigliseritlerin 2-Pozisyonunda Yer Alan Palmitik Asit Yüzdesinin 2-Gliseril Monopalmitat Yoluyla Belirlenmesi GC-FID Metodu	COI/T.20/Doc.No.23
	Yağ Asidi Etil Esterleri (FAEE) GC-FID Metodu	COI/T.20/ Doc No: 28
Süt	Protein Tayini Kjeldahl Metodu	AOAC 991.20
Peynir	Kuru Madde Tayini	TS EN ISO 5534
Peynir	Klorür Miktarı Tayini Volhard Metodu	AOAC 935.43
Bal ve Pekmez	HMF Tayini HPLC-UV Metodu	IHC-Bölüm 5.1
Bal	Şeker Kompozisyonu (Fruktoz, Glukoz, Sakaroz) Tayini HPLC-RID Metodu	İşletme İçi Metot (KYTG 721-320 Rev:1) (AOAC 980.13, 982.14 ve 984.15'den modifiye edilmiştir)
Tahıl, Tahıl Ürünleri (Mısır ve Baklagiller Hariç)	Nem ve Kuru Madde Tayini	TS EN ISO 712
Tahıl, Tahıl Ürünleri (Nişasta ve Nişasta Ürünleri Hariç)	Kül Tayini	TS EN ISO 2171
Ayran	Tuz Tayini Volhard Metodu	AOAC 935.43
Süt Ürünleri, Meyve ve Sebze Ürünleri	Titrasyon Asitliği Tayini	TS 1330, TS 591, TS 1018, TS 1125 ISO 750
İçecekler	Alkol (Etanol ve Metanol) Tayini GC-FID Metodu	ASTM Method D 5135-95

Akreditasyon Sertifikası Eki (Sayfa 25/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Şarap	Bakır (Cu) Analizi ICP-OES Metodu	Method OIV-MA-AS322-13
Gıda	Civa (Hg) Analizi ICP-OES Hidrür Sistem Metodu	İşletme İçi Metot (KYTG 721-313 Rev:1) (Microchemical Journal 85 (2007) 136-139; J. of Food Composition and Analysis (2002) 15, NMKL No:161; J. AOAC Int. 2000'den modifiye edilmiştir.)
	Selenyum Tayini ICP-OES Hidrür Sistem Metodu	İşletme İçi Metot (KYTG 721-314 Rev: 1) (Journal of Food Composition and Analysis (2002) 15'ten modifiye edilmiştir.)
Gıda	Kadmiyum (Cd), Bakır (Cu), Demir (Fe), Çinko (Zn), Kalay (Sn), Nikel (Ni), Kalsiyum (Ca), Magnezyum (Mg), Potasyum (K), Fosfor (P) Selenyum(Se), Arsenik(As) Tayini ICP-OES Metodu	İşletme İçi Metot (KYTG 721-316 Rev:1) (J. AOAC Int. 2000 Sep-Oct;83 (5):1218-24-J. of Food Composition and Analysis (2002) 15, NMKL No:161'den modifiye edilmiştir.)
	Arsenik (As) tayini ICP-OES Hidrür Sistem Metodu	İşletme İçi Metot (KYTG 721-315 Rev:1) (J. AOAC Int. 2000 Sept.-Oct 83 (5): 1218-24'ten modifiye edilmiştir.)
Gıda	<i>Salmonella</i> spp. Aranması	TS EN ISO 6579-1
Gıda	<i>Salmonella</i> spp. Aranması	AOAC 2013.01 bioMérieux VIDAS UP SPT
Gıda	Aerobik Koloni Sayımı Dökme Plak Tekniği	TS EN ISO 4833-1
Gıda	<i>Escherichia coli</i> Sayımı Koloni Sayım Tekniği	TS ISO 16649-2
Gıda	Koliform Bakteri Sayımı Koloni Sayım Tekniği	TS ISO 4832
Gıda	Koagülaz Pozitif Stafilokokların Sayımı- (<i>Staphylococcus aureus</i> ve diğer türler) Koloni Sayım Tekniği	TS EN ISO 6888-1
Gıda	<i>Bacillus cereus</i> Sayımı Koloni Sayım Tekniği	TS EN ISO 7932
Gıda	<i>Clostridium perfringens</i> Sayımı Koloni Sayım Tekniği	TS EN ISO 7937
Gıda	Küf ve Maya Sayımı Koloni Sayım Tekniği	TS ISO 21527-1 TS ISO 21527-2
Gıda	<i>Listeria monocytogenes</i> Aranması	AOAC 2013.11 bioMérieux VIDAS LMX
Gıda	Stafilokokal Enterotoksinler Aranması	bioMérieux VIDAS SET 2 30705
Gübreler	Nem Tayini Gravimetrik Metot	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği-EK-2 Metot: 15.8 EN 12048 AOAC 950.01 TS 2832

Akreditasyon Sertifikası Eki (Sayfa 26/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
(Gübreler Devam)	Amonyak+Nitrat Azotu Tayini Devarda Yöntemi Ön İşlem: Damıtma (Kjeldahl Yöntemi) Tayin: Titrasyon Yöntemi	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği-EK-2 Metot: 2.2.3 AOAC 892.01 TS EN 15476 TS 2832
	Amonyak Azotunun Tayini Ön İşlem: Damıtma (Kjeldahl Yöntemi) Tayin: Titrasyon Yöntemi	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği-EK-2 Metot: 2.1 TS EN 15475
	Toplam Azot (N) Tayini Ön İşlem: Sülfürik Asit ile kaynatma (Kjeldahl Yöntemi) Tayin: Titrasyon Yöntemi	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği- Ek-2 Metot: 2.3.3 TS EN 15478 AOAC 978.02 TS 2832
Organik/Organomineral Gübreler	Organik + Amonyak Azotunun Tayini	AOAC 955.04
	Organik Azot Tayini Hesaplama Metodu	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği Ek-2 Metot 2.1 TS EN 15475 AOAC 955.04 İşletme İçi Metot KYTT 721-12
	Toplam Organik Karbon Tayini	Tarımda Kullanılan Organik, Mineral ve Mikrobiyal Gübrelere Dair Yönetmelik Ek-19 Walkley Black Metodu TS 8336
Gübreler	Bakır (Cu), Demir (Fe), Çinko (Zn), Kadmiyum (Cd), Krom (Cr), Arsenik (As), Kurşun (Pb), Stronsiyum (Sr), Bor (B), Nikel (Ni), Potasyum (K), Alüminyum (Al), Kalsiyum (Ca), Magnezyum (Mg), Sodyum (Na), Molibden (Mo), Mangan (Mn), Kobalt (Co), Antimon (Sb), Kalay (Sn) Tayini Ön İşlem: Mikrodalga ile Özütleme Metodu Ölçüm: ICP-OES Metodu	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği EK-2 Metot: 9.1-10.1-13 EPA 3051 A EPA 6010 D AOAC 2006.03
Organik/Organomineral Gübreler	Kuru Kütlenin Kızdırma Kaybının Tayini Gravimetrik Metot	Tarımda Kullanılan Organik, Mineral ve Mikrobiyal Gübrelere Dair Yönetmelik Ek-19 TS EN 12879 ASTM D 7348
	Serbest Aminoasitlerin Tayini	İşletme İçi Metot (KYTT 721-2) Rev: 1 (Agilent App. Note Amino Acid Analysis Using Zorbax Edipse-AAF Columns and the Agilent 1100 HPLC, John W. Henderson, Robert D. Ricker)

Akreditasyon Sertifikası Eki (Sayfa 27/28)


Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Gübreler	Özütlenmiş Fosfor Tayini (Nötral amonyum sitrat çözeltisinde çözünebilir) Ön İşlem: Nötral Amonyum Sitrat ile Özütleme Tayin : Kinolin Fosfomolibdat ile Gravimetrik Yöntem	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği EK-2 Metot: 3.1.4 ; Metot 3.2 TS EN 15957 TS EN 15959
	Özütlenmiş Fosfor (Suda Çözünebilir) Tayini Ön İşlem: Su ile Özütleme Tayin: Kinolin Fosfomolibdat ile Gravimetrik Yöntem	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği EK-2 Metot: 3.1.6 ; Metot 3.2 TS EN 15958 TS EN 15959
	Özütlenmiş Fosfor (Mineral Asitlerde Çözünebilir) Tayini Ön İşlem: Mineral Asitler ile Özütleme Tayin: Kinolin Fosfomolibdat ile Gravimetrik Yöntem	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği EK-2 Metot: 3.1.1 ; Metot 3.2 TS EN 15956 TS EN 15959
	Bor (B), Bakır (Cu), Çinko (Zn), Demir (Fe), Kalsiyum (Ca), Kobalt (Co), Kükürt (S), Magnezyum (Mg), Mangan (Mn), Molibden (Mo), Potasyum (K), Sodyum (Na) Tayini Ön İşlem: Su ile Özütleme Tayin: ICP-OES Metodu	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği EK-2 Metot: 8.3 - 9.2 - 10.2 - 10.3 EPA 6010 D
	Civa (Hg) Tayini Ön İşlem: Mikrodalga ile Özütleme Tayin: ICP-OES Metodu	EPA 3051 A EPA 6010 D
Kimyevi Gübreler (Amonyum Nitrat)	pH Tayini Elektrometrik Metot	Tarımda Kullanılan Gübrelerin Piyasa Gözetimi ve Denetimi Yönetmeliği EK-2 Metot: 7.4 TS 836
Baca Gazı	Sabit Kaynak Emisyonları - Oksijen (O ₂) Kütle Derişimlerinin Tayini Ölçüm: Elektrokimyasal Hücre Metodu	TS ISO 12039*
Baca Gazı	Sabit Kaynak Emisyonları - Karbonmonoksit (CO) ve Karbondioksit (CO ₂) Kütle Derişimlerinin Tayini Ölçüm: Elektrokimyasal Hücre Metodu	TS ISO 12039*
Baca Gazı	Sabit Kaynak Emisyonları - Kükürtdioksit (SO ₂) Kütle Derişiminin Tayini Ölçüm: Elektrokimyasal Hücre Metodu	TS ISO 7935*
Baca Gazı	Sabit Kaynak Emisyonları - Azot monoksit (NO), Azotdioksit (NO ₂) ve Azot Oksit (NOx) Emisyonlarının Tayini Elektrokimyasal Hücre Metodu	EPA CTM 022*
Baca Gazı	Sabit Kaynak Emisyonları - Duman Yoğunluğunun (İslilik) Tayini Bacharach Yöntemi	TS 9503*
Baca Gazı	Sabit Kaynak Emisyonları - Tanecikli Maddenin Kütle Derişiminin Tayini (20-1000 mg/m ³) Gravimetrik Metot	TS ISO 9096
Baca Gazı	Sabit Kaynak Emisyonları - Baca İçi Örnekleme ile Toz Emisyon Miktarının Tayini Gravimetrik Metot	EPA Metot 17

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Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0375-T	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş. Akreditasyon No: AB-0375-T Revizyon No: 015 Tarih: 03.06.2022
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Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
Baca Gazı	Sabit Kaynak Emisyonları - Baca Dışı Örnekleme ile Toz Emisyon Miktarının Tayini Gravimetrik Metot	EPA Metot 5
Baca Gazı	Sabit Kaynak Emisyonları - Tozun Düşük Aralıktaki Kütle Derişiminin Tayini (5-50 mg/m ³) Gravimetrik Metot	TS EN 13284-1
Baca Gazı	Sabit Kaynak Emisyonları - Baca Gazında Nem Tayini Ölçüm: Volumetrik Metot Ölçüm: Gravimetrik Metot	EPA Metot 4
Baca Gazı	Sabit Kaynak Emisyonları - Bacalarda Gaz Akış Hız ve Debisi Tayini Gaz Akışlarının Hız ve Debisinin Tayini Ölçüm: L Tipi Pitot Tüpü Ölçüm: S Tipi Pitot Tüpü	TS ISO 10780*
Baca Gazı	Nem Probu ile Nem Tayini (≤180°C Baca Sıcaklığı için)	İşletme içi Metot (KYTE 721-10.02)*
Baca Gazı	Yaş-Kuru Termometre Metodu ile Nem Tayini (≤100°C Baca Sıcaklığı için)	İşletme içi Metot (KYTE 721-10.02)*
İmisyon (Çevre Havası)	Askıdaki Tanecikli Maddenin PM10 Kütle Derişimlerinin Tayini Gravimetrik Yöntem	TS EN 12341
İmisyon (Çevre Havası)	Çöken Toz Tayini Gravimetrik Yöntem	TS 2341


* Müşterinin yerinde, geçici veya mobil tesislerinde

KAPSAM SONU

G. Banu MÜDERRİSOĞLU
Genel Sekreter

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Accreditation Scope

	DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.
	Accreditation Nr: AB-0375-T Revision Nr: 015 Date: 03.06.2022
Test TS EN ISO/IEC 17025 AB-0375-T	As a Testing Laboratory
Address: Büyükesat Mahallesi, Kaptanpaşa Sokak No:2 06700 ANKARA/TÜRKİYE	Phone : 0 312 447 29 99 Fax : 0 312 447 86 66 E-Mail : duzennorwest@duzen.com.tr Website : www.duzennorwest.com.tr

Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Sampling of Rivers and Streams	TS EN ISO 5667-6
Water	Sampling of Groundwaters	TS ISO 5667-11
Water	Sampling from Lakes and Ponds	TS ISO 5667-4
Water	Sampling for Microbiological Analysis	TS EN ISO 19458
Water	Determination of pH Electrometric Method	SM 4500-H* B
Water	Determination of Total Solids Gravimetric Method	SM 2540 B
Water	Determination of Conductivity Laboratory Method	SM 2510 B
Water	Determination of Oil and Grease Pretreatment: Soxhlet Extraction Method Measurement: Gravimetric Method	SM 5520 D
Water	Determination of Total Suspended Solids Gravimetric Method	SM 2540 D
Water	Determination of Total Dissolved Solids Gravimetric Method	SM 2540 C
Water	Determination of Settleable Solids Volumetric Gravimetric Method	SM 2540 F
Water	Determination of Dissolved Oxygen Electrochemical Probe Method	TS EN ISO 5814
Water	Determination of Sulfide Titrimetric Method	SM 4500-S ²⁻ F
Water	Determination of Sulfide and Cyanide IC Method	In House Method - KYTÇ 721-10 Rev:1 (Adapted from Journal of Chromatography A, 1023 (2004) p:105-112)
Water	Determination of Free Chlorine Titrimetric Method	SM 4500-Cl F
Water	Determination of Total Chlorine Titrimetric Method	SM 4500-Cl F
Water	Determination of Chloride Titrimetric Method	SM 4500-Cl ⁻ B
Water	Determination of Chemical Oxygen Demand (COD) Open Reflux Titrimetric Method	SM 5220 B
Water	Determination of Chemical Oxygen Demand (COD) Closed Reflux Titrimetric Method	SM 5220 C
Water	Determination of Biochemical Oxygen Demand (BOD) 5 Day BOD Test	SM 5210 B

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Color Spectrophotometric Method	SM 2120 C
Water	Determination of Turbidity Nephelometric Method	SM 2130 B
Water	Determination of Nitrite/Nitrite Nitrogen Spectrophotometric Method	SM 4500-NO ₂ ⁻ B
Water	Determination of Sulfite Titrimetric Method	SM 4500-SO ₃ ⁻² B
Water	Determination of Chromium (VI) Spectrophotometric Method	SM 3500-Cr B
Water	Determination of Chromium (VI) IC Method	SM 3500-Cr C
Water	Determination of Total Cyanide Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-CN C SM 4500-CN E
Water	Determination of Free Cyanide Spectrophotometric Method	SM 4500-CN E
Water	Determination of Sulfate Spectrophotometric Method	SM 4500-SO ₄ ²⁻ E
Water	Determination of Total Phosphorus Pretreatment: Extraction Method Measurement: Spectrophotometric Method	SM 4500-P B SM 4500-P E
Water	Determination of Bromate and Chlorate IC Method	SM 4110 D
Water	Determination of Alkalinity Titrimetric Method	SM 2320 B
Water	Determination of Hardness EDTA Titrimetric Method	SM 2340 C
Water	Determination of Total Kjeldahl Nitrogen Macro Kjeldahl Method	SM 4500-N _{org} B
Water	Determination of Ammonia / Ammonia Nitrogen Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-NH ₃ B SM 4500-NH ₃ F
Water	Determination of Total Organic Carbon / Dissolved Organic Carbon High Temperature Combustion Method	SM 5310 B
Water	Determination of Total Petroleum Hydrocarbons Pretreatment: Soxhlet Extraction Method Measurement: Gravimetric Method	SM 5520 D and F
Water	Determination of Hydrocarbon Oil Index Pretreatment: Solvent Extraction Pretreatment: Micro Separator Pretreatment: Florisil Clean Up GC-FID Method	TS EN ISO 9377-2

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Anionic Surfactants as MBAS Pretreatment: Separation with Sublation Apparatus Measurement: Spectrophotometric Method SM 5540 B	SM 5540 C SM 5540 B
Water	Determination of Permanganate Index Titrimetric Method	TS 6288 EN ISO 8467
Water	Determination of Chlorophyll-a Spectrophotometric Method	SM 10200 H
Water	Determination of Fluoride, Chloride, Nitrite, Phosphate, Bromide, Nitrate, Sulfate IC Method	SM 4110 B
Water	Determination of Lithium, Sodium, Ammonium, Calcium, Magnesium, Potassium, IC Method	TS EN ISO 14911
Water	Determination of Phenol Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 5530 B SM 5530 D
Water	Determination of Phenol HPLC/UV Method	In House Method KYTÇ 721-41, Rev:1 (Adapted from OSHA Method 32)
Water	Determination of Silver (Ag), Aluminium (Al), Arsenic (As), Boron (B), Barium (Ba), Beryllium (Be), Calcium (Ca), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Copper (Cu), Iron (Fe), Potassium (K), Lithium (Li), Magnesium (Mg), Manganese (Mn), Molybdenum (Mo), Sodium (Na), Nickel (Ni), Lead (Pb), Antimony (Sb), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Phosphorus (P), Bismuth (Bi), Tin (Sn), Silisium (Si), Titanium (Ti), Sulphur (S) Pretreatment: Acid Extraction Pretreatment: Nitric Acid Extraction Pretreatment: Hydrochloric Acid Extraction Measurement: ICP-OES Method	SM 3030 C SM 3030 D SM 3030 E SM 3030 F SM 3120 B TS EN ISO 11885
Water	Determination of Silver (Ag), Aluminium (Al), Arsenic (As), Boron (B), Barium (Ba), Beryllium (Be), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Copper (Cu), Iron (Fe), Mercury (Hg), Lithium (Li), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Lead (Pb), Antimony (Sb), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Phosphorus (P), Bismuth (Bi), Tin (Sn) Pretreatment: Acid Extraction Pretreatment: Nitric Acid Extraction Pretreatment: Hydrochloric Acid Extraction Measurement: ICP-MS Method	SM 3030 C SM 3030 D SM 3030 E SM 3030 F EPA 200.8 EPA 6020 B TS EN ISO 17294 (1-2)
Water	Determination of Arsenic (As) ICP-OES Hydride Method	In House Method KYTÇ 721-105, Rev:1 (Adapted from SM 3120 B and TS EN ISO 11885)
Water	Determination of Temperature Laboratory and Field Method	SM 2550 B

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 TÜRKAK Test TS EN ISO/IEC 17025 AB-0375-T	<p style="text-align: center;">DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="text-align: center;">Accreditation Nr: AB-0375-T Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Light Transmittance / Secchi Disc Depth Measurement: Disk Method	EPA 841-B-97-003
Water	Determination of Hydrazine Spectrophotometric Method	ASTM D 1385-07
Water	Measurement of Flow rate Flow Rate Measurement Methods	EPA 841-B-97-003
Water	Determination of Total Pesticides (1,3,5-Trichlorobenzene, Alpha-BHC, 1,2,4-Trichlorobenzene, Gamma-BHC, 1,2,3-Trichlorobenzene, Pentachlorobenzene Hexachlorobenzene, Beta-BHC, Delta-BHC Pentachloronitrobenzene Heptachlor, Aldrin, Isodrin, Heptachlorepoxyde, Trans chlordane, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 2,4'-DDT, Endrin Aldehyde, Endosulfan sulfat, 4,4'-DDT, Parathion Ethyl, Dichlorvos) Pretreatment: Solid Phase Extraction Pretreatment: Silica Gel Clean Up Measurement: GC-ECD Method	EPA 3630 C EPA 3535 A EPA 8121 EPA 8081 B EPA 8141 B
Water	Determination of Adsorbable Organic Halogens (AOX) Microcoulometric Method	EPA 1650
Water	Determination of Total Organic Halogens (TOX) Microcoulometric Method	EPA 9020 B

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 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of Volatile Organic Compounds (VOC) Vinyl chloride (Chloroethene), Chloroform (Trichloromethane), Benzene, 1,2-Dichloroethane, Trichloroethene, Bromodichloromethane, Tetrachloroethene, Dibromochloromethane, Bromoform (Tribromomethane), Allylchloride (Epichloridine), 1,1-Dichloroethane, trans-1,2-Dichloroethene, Methyl acrylate, Bromochloromethane 1,1,1-Trichloroethane, 1-Chlorobutane, 1,1-Dichloropropene, 1,2-Dichloropropane, Methyl methacrylate, Dibromomethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, 1,1-Dichloropropanone-2, Toluene, trans-1,3-Dichloropropene, Ethyl methacrylate, 1,1,2-Trichloroethane, 1,3-Dichloropropane, 2-Hexanone, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Ethyl benzene, m+p-Xylene, o-Xylene, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, Bromobenzene, trans-1,4-Dichloro-2-butene, 1,2,3-Trichloropropane, n-Propylbenzene, 2-Chlorotoluene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 4-Chlorotoluene, tert-Butyl benzene, p-Isopropyl toluene, Pentachloroethane, sec-Butyl benzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, n-Butyl benzene, 1,2-Dichlorobenzene, Carbon tetrachloride, Hexachloroethane, 1,2-Dibromo-3-chloropropane, Nitrobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, 1,2,3-Trichlorobenzene Pretreatment: Purge&Trap Measurement: GC/MS Metodu	EPA 5030 C EPA 8260 D
Water	Determination of Phenols 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Pretreatment: Solid Phase Extraction Pretreatment: Silica Gel Clean Up Measurement: GC-MS Method	EPA 3535 A EPA 3630 C EPA 8270 E
Water	Determination of Polychlorinated Biphenyls (PCBs) (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Pretreatment: Liquid/Liquid Extraction Method Pretreatment: Silica Gel Clean Up Measurement: GC/ECD Method	TS 2627 EN ISO 6468

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Determination of PAH (Polyaromatic Hydrocarbons) Naphthalene, Acenaphthalene, Acenaphthene, Flourene, Phenanthrene, Anthrecene, Flouranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)flouranthene Benzo(k)flouranthene, Benzo(a)pyrene, Dibenzo(a,h)anthrecene, Benzo (g,h,i) perylene, Indeno (1,2,3-cd) pyrene Pretreatment: Solid Phase Extraction Pretreatment: Silica Gel Clean Up Measurement: GC/MS Method	EPA 3535 A EPA 3630 C EPA 8270 E
Water	Determination of Sulfite IC Method	TS EN ISO 10304-3
Water	Determination of Phthalate Esters (Dimethyl phthalate, Diethyl phthalate, Di-n-butyl phthalate, Benzyl butyl phthalate, bis (2-ethylhexyl) phthalate, Di-n-octyl phthalate) Pretreatment: Solid Phase Extraction Pretreatment: Alumina Clean Up Pretreatment: Florisil Clean Up Measurement: GC-MS Method	EPA 3535 A EPA 3610 B EPA 3620 C EPA 8270 E
Water	Determination of Tinned Organic Compounds (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Monooctyltin, Dioctyltin, Triphenyltin, Tricyclohexyltin) Pretreatment: Derivatization Method Pretreatment: Liquid/Liquid Extraction Method Pretreatment: Silica Gel/Alumina Clean Up Method Measurement: GC-MS Method	TS EN ISO 17353
Water	Enumeration of Coliform Bacteria MPN Technique	SM 9221 B
Water	Enumeration of Fecal Coliform Bacteria MPN Technique	SM 9221 E
Water	Enumeration of <i>Escherichia coli</i> MPN Technique	SM 9221 F
Water	Enumeration of Coliform Bacteria Membrane Filtration Technique	SM 9222 B
Water	Enumeration of Fecal Coliform Bacteria Membrane Filtration Technique	SM 9222 D
Water	Enumeration of <i>Escherichia coli</i> Membrane Filtration Technique	SM 9222 H
Water	Colony Count (22 °C)	TS EN ISO 6222
Water	Colony Count (37 °C)	TS EN ISO 6222
Water	Enumeration of <i>Pseudomonas aeruginosa</i> Membrane Filtration Technique	TS EN ISO 16266
Water	Enumeration of Fecal Enterococcus MPN Technique	SM 9230 B

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Water	Enumeration of Fecal Enterococcus Membrane Filtration Technique	TS EN ISO 7899-2
Water	Detection of <i>Salmonella</i> spp.	TS EN ISO 19250
Water	Enumeration of <i>Legionella</i> Membrane Filtration Technique	ISO 11731
Wastewater	Sampling Techniques	TS EN ISO 5667-10
Wastewater	Determination of pH Electrometric Method	SM 4500 H ⁺ B
Wastewater	Determination of Total Solids Gravimetric Method	SM 2540 B
Wastewater	Determination of Conductivity Laboratory Method	SM 2510 B
Wastewater	Determination of Oil and Grease Pretreatment: Soxhlet Extraction Method Measurement: Gravimetric Method	SM 5520 D
Wastewater	Determination of Total Suspended Solids Gravimetric Method	SM 2540 D
Wastewater	Determination of Total Dissolved Solids Gravimetric Method	SM 2540 C
Wastewater	Determination of Settleable Solids Volumetric Gravimetric Method	SM 2540 F
Wastewater	Determination of Dissolved Oxygen Electrochemical Probe Method	TS EN ISO 5814
Wastewater	Determination of Sulfide Titrimetric Method	SM 4500 S ²⁻ F
Wastewater	Determination of Sulfide and Cyanide IC Method	In House Method - KYTÇ 721-10 Rev:1 (Adapted from Journal of Chromatography A, 1023 (2004) p:105-112)
Wastewater	Determination of Free Chlorine Titrimetric Method	SM 4500-Cl F
Wastewater	Determination of Total Chlorine Titrimetric Method	SM 4500-Cl F
Wastewater	Determination of Chloride Titrimetric Method	SM 4500-Cl ⁻ B
Wastewater	Determination of Chemical Oxygen Demand (COD) Open Reflux Titrimetric Method	SM 5220 B
Wastewater	Determination of Chemical Oxygen Demand (COD) Closed Reflux Titrimetric Method	SM 5220 C
Wastewater	Determination of Biochemical Oxygen Demand (BOD) 5 Day BOD Test	SM 5210 B
Wastewater	Determination of Color Spectrophotometric Method	SM 2120 C
Wastewater	Determination of Turbidity Nephelometric Method	SM 2130 B

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 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Wastewater	Determination of Nitrite/Nitrite Nitrogen Spectrophotometric Method	SM 4500-NO ₂ ⁻ B
Wastewater	Determination of Sulfite Titrimetric Method	SM 4500-SO ₃ ²⁻ B
Wastewater	Determination of Chromium (VI) Spectrophotometric Method	SM 3500-Cr B
Wastewater	Determination of Chromium (VI) IC Method	SM 3500-Cr C
Wastewater	Determination of Total Cyanide Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-CN C SM 4500-CN E
Wastewater	Determination of Free Cyanide Spectrophotometric Method	SM 4500-CN E
Wastewater	Determination of Sulfate Spectrophotometric Method	SM 4500-SO ₄ ²⁻ E
Wastewater	Determination of Total Phosphorus Pretreatment: Extraction Method Measurement: Spectrophotometric Method	SM 4500-P B SM 4500-P E
Wastewater	Determination of Total Kjeldahl Nitrogen Macro Kjeldahl Method	SM 4500-N _{org} B
Wastewater	Determination of Ammonia / Ammonia Nitrogen Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-NH ₃ B SM 4500-NH ₃ F
Wastewater	Determination of Total Organic Carbon / Dissolved Organic Carbon High Temperature Combustion Method	SM 5310 B
Wastewater	Determination of Total Petroleum Hydrocarbons Pretreatment: Soxhlet Extraction Method Measurement: Gravimetric Method	SM 5520 D and F
Wastewater	Determination of Hydrocarbon Oil Index Pretreatment: Solvent Extraction Pretreatment: Micro Separator Pretreatment: Florisil Clean Up GC-FID Method	TS EN ISO 9377-2
Wastewater	Determination of Anionic Surfactants as MBAS Pretreatment: Separation with Sublation Apparatus Measurement: Spectrophotometric Method	SM 5540 B SM 5540 C
Wastewater	Determination of Fluoride, Chloride, Nitrite, Phosphate, Bromide, Nitrate, Sulfate IC Method	SM 4110 B
Wastewater	Determination of Lithium, Sodium, Ammonium, Calcium, Magnesium, Potassium, IC Method	TS EN ISO 14911
Wastewater	Determination of Phenol Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 5530 B SM 5530 D

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 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Wastewater	Determination of Phenol HPLC/UV Method	In House Method KYTÇ 721-41, Rev:1 (Adapted from OSHA Method 32)
Wastewater	Determination of Silver (Ag), Aluminium (Al), Arsenic (As), Boron (B), Barium (Ba), Beryllium (Be), Calcium (Ca), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Copper (Cu), Iron (Fe), Potassium (K), Lithium (Li), Magnesium (Mg), Manganese (Mn), Molybdenum (Mo), Sodium (Na), Nickel (Ni), Lead (Pb), Antimony (Sb), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Phosphorus (P), Bismuth (Bi), Tin (Sn), Silisium (Si), Titanium (Ti), Sulphur (S) Pretreatment: Acid Extraction Pretreatment: Nitric Acid Extraction Pretreatment: Hydrochloric Acid Extraction Measurement: ICP-OES Method	SM 3030 C SM 3030 D SM 3030 E SM 3030 F SM 3120 B TS EN ISO 11885
Wastewater	Determination of Silver (Ag), Aluminium (Al), Arsenic (As), Boron (B), Barium (Ba), Beryllium (Be), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Copper (Cu), Iron (Fe), Mercury (Hg), Lithium (Li), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Lead (Pb), Antimony (Sb), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Phosphorus (P), Bismuth (Bi), Tin (Sn) Pretreatment: Acid Extraction Pretreatment: Nitric Acid Extraction Pretreatment: Hydrochloric Acid Extraction Measurement: ICP-MS Method	SM 3030 C SM 3030 D SM 3030 E SM 3030 F EPA 200.8 EPA 6020 B TS EN ISO 17294 (1-2)
Wastewater	Determination of Arsenic (As) ICP-OES Hydride Method	In House Method KYTÇ 721-105, Rev:1 (Adapted from SM 3120 B and TS EN ISO 11885)
Wastewater	Determination of Temperature Laboratory and Field Method	SM 2550 B
Wastewater	Determination of Hydrazine Spectrophotometric Method	ASTM D1385-07
Wastewater	Measurement of Flow rate Flow Rate Measurement Methods	EPA 841-B-97-003
Wastewater	Determination of Total Pesticides (1,3,5-Trichlorobenzene, Alpha-BHC, 1,2,4-Trichlorobenzene, Gamma-BHC, 1,2,3-Trichlorobenzene, Pentachlorobenzene, Hexachlorobenzene, Beta-BHC, Delta-BHC, Pentachloronitrobenzene, Heptachlor, Aldrin, Isodrin, Heptachlorepoxyde, Trans chlordane, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 2,4'-DDT, Endrin Aldehyde, Endosulfan sulfate, 4,4'-DDT, Parathion Ethyl, Dichlorvos) Pretreatment: Solid Phase Extraction Pretreatment: Silica Gel Clean Up Measurement: GC-ECD Method	EPA 3630 C EPA 3535 A EPA 8121 EPA 8081 B EPA 8141 B
Wastewater	Determination of Adsorbable Organic Halogens (AOX) Microcoulometric Method	EPA 1650

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 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Wastewater	Determination of Total Organic Halogens (TOX) Microcoulometric Method	EPA 9020 B
Wastewater	Determination of Volatile Organic Compounds (VOC) Vinyl chloride (Chloroethene), Chloroform, (Trichloromethane) Benzene, 1,2-Dichloroethane, Trichloroethene, Bromodichloromethane, Tetrachloroethene, Dibromochloromethane, Bromoform (Tribromomethane), Allylchloride (Epichloridine) 1,1-Dichloroethane, trans-1,2-Dichloroethene, Methyl acrylate, Bromochloromethane, 1,1,1-Trichloroethane, 1-Chlorobutane, 1,1-Dichloropropene, 1,2-Dichloropropane, Methyl methacrylate, Dibromomethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, 1,1-Dichloropropanone-2, Toluene, trans-1,3-Dichloropropene, Ethyl methacrylate, 1,1,2-Trichloroethane, 1,3-Dichloropropane, 2-Hexanone, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Ethyl benzene, m+p-Xylene, o-Xylene, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, Bromobenzene, trans-1,4-Dichloro-2-butene, 1,2,3-Trichloropropane, n-Propylbenzene, 2-Chlorotoluene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 4-Chlorotoluene, tert-Butyl benzene, p-Isopropyl toluene, Pentachloroethane, sec-Butyl benzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, n-Butyl benzene, 1,2-Dichlorobenzene, Carbon tetrachloride, Hexachloroethane, 1,2-Dibromo-3-chloropropane, Nitrobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, 1,2,3-Trichlorobenzene Pretreatment: Purge&Trap Measurement: GC/MS Metodu	EPA 5030 C EPA 8260 D
Wastewater	Determination of Polychlorinated Biphenyls (PCBs) (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Pretreatment: Liquid/Liquid Extraction Method Pretreatment: Silica Gel Clean Up Measurement: GC/ECD Method	TS 2627 EN ISO 6468
Wastewater	Determination of PAH (Polycyclic Aromatic Hydrocarbons) Naphthalene, Acenaphthalene, Acenaphthene, Flourene, Phenanthrene, Anthracene, Flouranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)flouranthene, Benzo(k)flouranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Indeno(1,2,3-c-d)pyrene Pretreatment: Solid Phase Extraction Pretreatment: Silica Gel Clean Up Measurement: GC-MS Method	EPA 3535 A EPA 3630 C EPA 8270 E
Wastewater	Determination of Sulfite IC Method	TS EN ISO 10304-3

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 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Wastewater	Determination of Phthalate Esters (Dimethyl phthalate, Diethyl phthalate, Di-n-butyl phthalate, Benzyl buthyl phthalate, bis (2-ethylhexyl) phthalate, Di-n-octyl phthalate) Pretreatment: Solid Phase Extraction Pretreatment: Alumina Clean Up Pretreatment: Florisil Clean Up Measurement: GC-MS Method	EPA 3535 A EPA 3610 B EPA 3620 C EPA 8270 E
Wastewater	Determination of Tinned Organic Compounds (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Monoocetyltn, Dioctyltin, Triphenyltin, Tricyclohexyltin) Pretreatment: Derivatization Method Pretreatment: Liquid/Liquid Extraction Method Pretreatment: Silica Gel/Alumina Clean Up Method Measurement: GC-MS Method	TS EN ISO 17353
Wastewater	Enumeration of Coliform Bacteria MPN Technique	SM 9221 B
Wastewater	Enumeration of Fecal Coliform Bacteria MPN Technique	SM 9221 E
Wastewater	Enumeration of <i>Escherichia coli</i> MPN Technique	SM 9221 F
Wastewater	Enumeration of Coliform Bacteria Membrane Filtration Technique	SM 9222 B
Wastewater	Enumeration of Fecal Coliform Bacteria Membrane Filtration Technique	SM 9222 D
Wastewater	Enumeration of <i>Escherichia coli</i> Membrane Filtration Technique	SM 9222 H
Wastewater	Colony Count (22 °C)	TS EN ISO 6222
Wastewater	Colony Count (37 °C)	TS EN ISO 6222
Wastewater	Enumeration of <i>Pseudomonas aeruginosa</i> Membrane Filtration Technique	TS EN ISO 16266
Wastewater	Enumeration of Fecal Enterococcus MPN Technique	SM 9230 B
Wastewater	Enumeration of Fecal Enterococcus Membrane Filtration Technique	TS EN ISO 7899-2
Wastewater	Detection of <i>Salmonella</i> spp.	TS EN ISO 19250
Wastewater	Enumeration of <i>Legionella</i> Membrane Filtration Technique	ISO 11731

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 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Wastewater	Determination of Phenols 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Pretreatment: Solid Phase Extraction Pretreatment: Silica Gel Clean Up Measurement: GC-MS Method	EPA 3535 A EPA 3630 C EPA 8270 E
Sea Water	Sampling from Marine Waters	TS ISO 5667- 9
Sea Water	Determination of Pesticides (HCH, Dieldrin) Pretreatment: Solid Phase Extraction Pretreatment: Silica Gel Clean Up Measurement: GC-ECD Method	EPA 3535 A EPA 3630 C EPA 8081 B EPA 8141 B
Sea Water	Determination of Chromium (VI) Spectrophotometric Method	SM 3500 Cr B
Sea Water	Determination of Total Cyanide Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-CN C SM 4500-CN E
Sea Water	Determination of PAH (Polyaromatic Hydrocarbons) Naphthalene, Acenaphthalene, Acenaphthene, Flourene, Phenanthrene, Anthrecene, Flouranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)flouranthene, Benzo(k)flouranthene, Benzo(a)pyrene, Dibenzo(a,h)anthrecene, Benzo(g,h,i)perylene, Indeno(1,2,3-c-d)pyrene Pretreatment: Solid Phase Extraction Pretreatment: Silica Gel Clean Up Measurement: GC-MS Method	EPA 3535 A EPA 3630 C EPA 8270 E
Sea Water	Determination of Arsenic (As), Cadmium (Cd), Chromium (Cr), Copper (Cu), Nickel (Ni), Lead (Pb), Zinc (Zn) Pretreatment: Acid Extraction Pretreatment: Nitric Acid Extraction Pretreatment: Hydrochloric Acid Extraction Measurement: ICP-OES Method	SM 3030 C SM 3030 D SM 3030 E SM 3030 F SM 3120 B
Sea Water	Determination of Arsenic (As), Cadmium (Cd), Chromium (Cr), Copper (Cu), Nickel (Ni), Lead (Pb), Zinc (Zn), Mercury (Hg) Pretreatment: Acid Extraction Pretreatment: Nitric Acid Extraction Pretreatment: Hydrochloric Acid Extraction Measurement: ICP-MS Method	SM 3030 C SM 3030 D SM 3030 E SM 3030 F EPA 200.8 EPA 6020 B TS EN ISO 17294 (1/2)

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 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sea Water	Determination of Ammonia/Ammonia Nitrogen Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 4500-NH ₃ B SM 4500-NH ₃ F
Sea Water	Determination of Crude Oil and Petroleum Derivatives Pretreatment: Solvent Extraction Pretreatment: Micro Separator Pretreatment: Florisil Clean Up GC-FID Method	TS EN ISO 9377-2
Sea Water	Determination of Color Spectrophotometric Method	SM 2120 C
Sea Water	Determination of Total Phosphorus Pretreatment: Extraction Method Measurement: Spectrophotometric Method	In House Method (KYTÇ 721-26) Rev:1 SM 4500-P B SM 4500-P E
Sea Water	Determination of Dissolved Oxygen Electrochemical Probe Method	TS EN ISO 5814
Sea Water	Determination of Chlorophyll-a Spectrophotometric Method	SM 10200 H
Sea Water	Determination of Turbidity Nephelometric Method	SM 2130 B
Sea Water	Determination of pH Electrometric Method	SM 4500-H* B
Sea Water	Determination of Total Suspended Solids Gravimetric Method	SM 2540 D
Sea Water	Determination of Salinity Electrical Conductivity Method	SM 2520 B
Sea Water	Determination of Temperature Laboratory Method	SM 2550 B
Sea Water	Determination of Total Organic Carbon / Dissolved Organic Carbon High Temperature Combustion Method	SM 5310 B
Sea Water	Determination of Total Kjeldahl Nitrogen Macro Kjeldal Method	SM 4500-N _{org} B
Sea Water	Determination of Nitrite/Nitrite Nitrogen Spectrophotometric Method	SM 4500-NO ₂ ⁻ B
Sea Water	Determination of Phenols Pretreatment: Distillation Method Measurement: Spectrophotometric Method	SM 5530 B SM 5530 D
Sea Water	Determination of Phenols HPLC/UV Method	In House Method KYTÇ 721-41, Rev:1 (Adapted from OSHA Method 32)
Sea Water	Determination of Light Transmittance / Secchi Disc Depth Measurement: Disk Method	EPA 841-B-97-003
Sea Water	Determination of Oil and Grease Pretreatment: Soxhlet Extraction Method Measurement: Gravimetric Method	SM 5520 D
Sea Water	Determination of Chemical Oxygen Demand Open Reflux Titrimetric Method	TS 2789

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sea Water	Determination of Biochemical Oxygen Demand 5 Day BOD Test	SM 5210 B
Sea Water	Determination of Nitrate/Nitrate Nitrogen Pretreatment: Cadmium Reduction Method Measurement: Spectrophotometric Method	SM 4500 NO ₃ ⁻ E
Sea Water	Determination of Reactive Silica Spectrophotometric Method	In House Method KYTÇ 721-61, Rev:1 (Adapted from Methods of Sea Water Analysis Grosshoff K. Kremling K. Ehrhardt.M)
Sea Water	Determination of Dissolved Inorganic Phosphorus (Orthophosphate) Spectrophotometric Method	In House Method KYTÇ 721-62, Rev:1 (Adapted from Methods of Sea Water Analysis Grosshoff K. Kremling K. Ehrhardt.M)
Sea Water	Determination of Anionic Surfactants as MBAS Pretreatment: Separation with Sublation Apparatus Measurement: Spectrophotometric Method	SM 5540 B SM 5540 C
Sea Water	Determination of Volatile Organic Compounds (VOC) Vinyl chloride (Chloroethene), Chloroform (Trichloromethane), Benzene, 1,2-Dichloroethane, Trichloroethene, Bromodichloromethane, Tetrachloroethene, Dibromochloromethane, Bromoform (Tribromomethane), Allylchloride (Epichloridine), 1,1-Dichloroethane, trans-1,2-Dichloroethene, Methyl acrylate, Bromochloromethane 1,1,1-Trichloroethane, 1-Chlorobutane, 1,1-Dichloropropene, 1,2-Dichloropropane, Methyl methacrylate, Dibromomethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, 1,1-Dichloropropanone-2, Toluene, trans-1,3-Dichloropropene, Ethyl methacrylate, 1,1,2-Trichloroethane, 1,3-Dichloropropane, 2-Hexanone, 1,2-Dibromoethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, Ethyl benzene, m+p-Xylene, o-Xylene, Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, Bromobenzene, trans-1,4-Dichloro-2-butene, 1,2,3-Trichloropropane, n-Propylbenzene, 2-Chlorotoluene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 4-Chlorotoluene, tert-Butyl benzene, p-Isopropyl toluene, Pentachloroethane, sec-Butyl benzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, n-Butyl benzene, 1,2-Dichlorobenzene, Carbon tetrachloride, Hexachloroethane, 1,2-Dibromo-3-chloropropane, Nitrobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, 1,2,3-Trichlorobenzene Pretreatment: Purge&Trap Measurement: GC/MS Method	EPA 5030 C EPA 8260 D

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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sea Water	Determination of Tinned Organic Compounds (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Monoctyltin, Dioctyltin, Triphenyltin, Tricyclohexyltin) Pretreatment: Derivatization Method Pretreatment: Liquid/Liquid Extraction Method Pretreatment: Silica Gel/Alumina Clean Up Method Measurement: GC-MS Method	TS EN ISO 17353
Sea Water	Determinations of Phenols 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Pretreatment: Solid Phase Extraction Method Pretreatment: Silica Gel Clean Up Method Measurement: GC-MS Method	EPA 3535 A EPA 3630 C EPA 8270 E
Sea Water	Enumeration of Coliform Bacteria MPN Technique	SM 9221 B
Sea Water	Enumeration of Fecal Coliform Bacteria MPN Technique	SM 9221 E
Sea Water	Enumeration of <i>Escherichia coli</i> MPN Technique	SM 9221 F
Sea Water	Enumeration of Coliform Bacteria Membrane Filtration Technique	SM 9222 B
Sea Water	Enumeration of Fecal Coliform Bacteria Membrane Filtration Technique	SM 9222 D
Sea Water	Enumeration of <i>Escherichia coli</i> Membrane Filtration Technique	SM 9222 H
Sea Water	Colony Count (22 °C)	TS EN ISO 6222
Sea Water	Enumeration of Fecal Enterococcus MPN Technique	SM 9230 B
Sea Water	Colony Count (37 °C)	TS EN ISO 6222
Sea Water	Enumeration of Fecal Enterococcus Membrane Filtration Technique	TS EN ISO 7899-2
Sea Water	Detection of <i>Salmonella</i> spp.	TS EN ISO 19250
Sea Water	Enumeration of <i>Legionella</i> Membrane Filtration Technique	ISO 11731
Sea Water	Enumeration of <i>Pseudomonas aeruginosa</i> Membrane Filtration Technique	TS EN ISO 16266
Waste	Sampling of Solid Wastes	TS 12090

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste	Total Organic Carbon Walkley Black Method	In House Method KYTT 721-4 Rev:1 (Adapted from TS 8336)
Waste	Determination of BTEX (Benzene, Toluene, Ethyl Benzene, Xylene) Pretreatment: Headspace Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Waste	Determination of Polychlorinated Biphenyls (PCBs) (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Pretreatment: PFE Pretreatment: Sulfur Clean Up Pretreatment: Silica Gel Clean Up Measurement: GC/ECD Method	EPA 3545 A EPA 3660 B EPA 3630 C EPA 8082 A TS EN 17322
Waste	Determination of Hydrocarbons in the Range of C10-C40 Pretreatment: Sample Preparation Pretreatment: Extraction Pretreatment: Florisil Clean Up Measurement: GC-FID Method	TS EN 14039 TS ISO 14507 TS EN ISO 16703
Waste	Determination of Loss on Ignition of Dry Mass Gravimetric Method	TS EN 12879 ASTM D 7348
Waste	Dry Matter (%) Content / Moisture (%) Determination Gravimetric Method	TS 9546 EN 12880
Waste	Determination of Phenol Index Pretreatment: Solid Waste Extraction Pretreatment: Distillation Method Measurement: Spectrophotometric Method	TS EN 12457-4 SM 5530 B SM 5530 D
Waste	Determination of Dissolved Organic Carbon Pretreatment: Solid Waste Extraction Measurement: High Temperature Combustion Method	TS EN 12457-4 SM 5310 B
Waste	Determination of Copper (Cu), Cadmium (Cd), Lead (Pb), Arsenic (As), Molybdenum (Mo), Nickel (Ni), Antimony (Sb), Selenium (Se), Chromium (Cr), Zinc (Zn), Barium (Ba) Pretreatment: Solid Waste Extraction Pretreatment: Microwave Digestion Pretreatment: Filtration Measurement: ICP-OES Method	TS EN 12457-4 SM 3030 K SM 3120 B
Waste	Determination of Fluoride, Chloride, Sulfate Pretreatment: Solid Waste Extraction Measurement: IC Method	TS EN 12457-4 SM 4110 B
Waste	Determination of pH Pretreatment: Solid Waste Extraction Measurement: Electrometric Method	TS EN 12457-4 SM 4500 H ⁺ B
Waste	Determination of Conductivity Pretreatment: Solid Waste Extraction Measurement: Laboratory Method	TS EN 12457-4 SM 2510 B
Waste	Determination of Total Dissolved Solid Pretreatment: Solid Waste Extraction Measurement: Gravimetric Method	TS EN 12457-4 SM 2540 C

Annex of the certificate (Page 17/28)


Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Waste	Determination of Mercury (Hg) Pretreatment: Solid Waste Extraction Pretreatment: Microwave Digestion Pretreatment: Filtration Measurement: ICP-OES Method	TS EN 12457-4 SM 3030 K EPA 200.7
Waste	Determination of Tinned Organic Compounds (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Monoctyltin, Dioctyltin, Triphenyltin, Tricyclohexyltin) Pretreatment: Solid Waste Extraction Pretreatment: Silica Gel/Alumina Clean Up Method Measurement: GC-MS Method	TS EN 12457-4 ISO 17353
Soil	Sampling, Transport and Storage of Surface Soil	TS ISO 18400-104 TS ISO 18400-202 TS ISO 18400-205
Soil	Determination of Polychlorinated Biphenyls (PCBs) (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Pretreatment: PFE Pretreatment: Sulfur Clean Up Pretreatment: Silica Gel Clean Up Measurement: GC/ECD Method	EPA 3545 A EPA 3660 B EPA 3630 C EPA 8082A TS EN 17322
Soil	Dry Matter Content / Moisture Determination Gravimetric Method	TS ISO 11465 TS ISO 11465/Cor.1
Soil	Determination of Organic Matter Walkley Black Method	In House Method KYTT 721-4 Rev: 1 (Adapted form TS 8336)
Soil	Determination of BTEX (Benzene, Toluene, Ethyl Benzene, Xylene) Pretreatment: Headspace Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Soil	Determination of Adsorbable Organic Halogens (AOX) Microcoulometric Titration Method	In House Method KYTÇ 721-74 Rev: 1 (Adapted from DIN 38414 Chapter 18)
Soil	Determination of Total Organic Halogens (TOX) Microcoulometric Titration Method	EPA 1649
Soil	Determination of PAH (Polycyclic Aromatic Hydrocarbons) (Naphthalene, Acenaphthalene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Flouranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)flouranthene, Benzo(k)flouranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Indeno(1,2,3-c-d)pyrene) Pretreatment: PFE Pretreatment: Silica Gel Clean Up Analysis: GC/MS Method	EPA 3545 A EPA 8270 E EPA 3630 C
Soil	Determination of Hydrocarbons in the Range of C10-C40 Pretreatment: Sample Preparation Pretreatment: Extraction Pretreatment: Florisil Clean Up Measurement: GC-FID Method	TS ISO 14507 TS EN 14039 TS EN ISO 16703

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Soil	Determination of Oil and Grease Pretreatment: Soxhlet Extraction Method Measurement: Gravimetric Method	EPA 9071 B
Soil	Determination of Nitrogen Modified Kjeldahl Method	TS 8337 ISO 11261
Soil	Determination of Loss on Ignition (550±25)°C Gravimetric Method	TS EN 12879 ASTM D 7348
Soil	Determination of Sodium (Na), Potassium (K), Calcium (Ca), Magnesium (Mg), Aluminium (Al), Copper (Cu), Iron (Fe), Barium (Ba), Zinc (Zn), Cadmium (Cd), Tin (Sn), Chromium (Cr), Lead (Pb), Arsenic (As), Molybdenum (Mo), Cobalt (Co), Nickel (Ni), Lithium (Li), Manganese (Mn), Beryllium (Be), Antimony (Sb), Strontium (Sr), Vanadium (V), Titanium (Ti), Boron (B), Phosphorus (P), Thallium (Tl), Selenium (Se) Pretreatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D TS EN 13650
Soil	Determination of Total Salt Amount	TS 8334
Soil	Determination of pH Electrometric Method	TS ISO 10390
Soil	Determination of Phenols 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Pretreatment: PFE Pretreatment: Silica Gel Clean Up Measurement: GC-MS Method	EPA 3545 A EPA 8270 E EPA 3630 C
Soil	Determination of Pesticides 1,3,5-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene, Pentachlorobenzene, Hexachlorobenzene, Pentachloronitrobenzene, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Heptachlor, Aldrin, Isodrin, Heptachlorepoide, Trans chlordan, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 2,4'-DDT, Endrin Aldehyde, Endosulfan sulfate, 4,4'-DDT, Dichlorvos Pretreatment: Ultrasonic Extraction Pretreatment: Sulfur Clean Up Pretreatment: Silica Gel Clean Up Measurement: GC-ECD Method	EPA 3550 C EPA 3660 B EPA 3630 C EPA 8121 EPA 8081 B EPA 8141 B
Soil	Determination of Mercury (Hg) Pretreatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sewage Sludge	Sampling of Sludge from Sewage and Water Treatment Plants	TS EN ISO 5667-13
Sewage Sludge	Determination of Polychlorinated Biphenyls (PCBs) (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Pretreatment: PFE Pretreatment: Sulfur Clean Up Pretreatment: Silica Gel Clean Up Measurement: GC/ECD Method	EPA 3545 A EPA 3660 B EPA 3630 C EPA 8082 A TS EN 17322
Sewage Sludge	Dry Matter Content (%) / Moisture (%) Determination Gravimetric Method	TS 9546 EN 12880
Sewage Sludge	Determination of Organic Matter Walkley-Black Method	In House Method KYTT 721-4 Rev:1 (Adapted from TS 8336)
Sewage Sludge	Determination of BTEX (Benzene, Toluene, Ethyl Benzene, Xylene) Pretreatment: Headspace Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Sewage Sludge	Determination of Adsorbable Organic Halogens (AOX) Microcoulometric Titration Method	In House Method KYTÇ 721-74 Rev: 1 (Adapted from DIN 38414 Chapter 18)
Sewage Sludge	Determination of Total Organic Halogens (TOX) Microcoulometric Titration Method	EPA 1649
Sewage Sludge	Determination of PAH (Polycyclic Aromatic Hydrocarbons) Naphthalene, Acenaphthalene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene, Indeno(1,2,3-c-d)pyrene Pretreatment: PFE Pretreatment: Silica Gel Clean Up Measurement: GC/MS Method	EPA 3545 A EPA 8270 E EPA 3630 C
Sewage Sludge	Determination of Hydrocarbons in the Range of C10-C40 Pretreatment: Sample Preparation Pretreatment: Extraction Pretreatment: Florisil Clean Up Measurement: GC-FID Method	TS ISO 14507 TS EN 14039 ISO 16703
Sewage Sludge	Determination of Oil and Grease Pretreatment: Soxhlet Extraction Method Measurement: Gravimetric Method	EPA 9071 B
Sewage Sludge	Determination of Nitrogen Modified Kjeldahl Method	TS 8337 ISO 11261
Sewage Sludge	Determination of Loss on Ignition of Dry Matter Gravimetric Method	TS EN 12879 ASTM D 7348

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sewage Sludge	Determination of Sodium (Na), Potassium (K), Calcium (Ca), Magnesium (Mg), Aluminium (Al), Copper (Cu), Iron (Fe), Barium (Ba), Zinc (Zn), Cadmium (Cd), Tin (Sn), Chromium (Cr), Lead (Pb), Arsenic (As), Molybdenum (Mo), Cobalt (Co), Nickel (Ni), Lithium (Li), Manganese (Mn), Beryllium (Be), Antimony (Sb), Strontium (Sr), Vanadium (V), Titanium (Ti), Boron (B), Phosphorus (P), Thallium (Tl), Selenium (Se) Pretreatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D TS EN 13650
Sewage Sludge	Determination of Total Salt Amount	TS 8334
Sewage Sludge	Determination of pH Electrometric Method	TS EN 15933
Sewage Sludge	Determination of Phenols 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Pretreatment: PFE Pretreatment: Silica Gel Clean Up Measurement: GC-MS Method	EPA 3545 A EPA 8270 E EPA 3630 C
Sewage Sludge	Determination of Pesticides 1,3,5-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene, Pentachlorobenzene, Hexachlorobenzene, Pentachloronitrobenzene, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Heptachlor, Aldrin, Isodrin, Heptachlorepoxyde, Trans chlordane, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 2,4'-DDT, Endrin Aldehyde, Endosulfan sulfate, 4,4'-DDT, Dichlorvos Pretreatment: Ultrasonic Extraction Pretreatment: Sulfur Clean Up Pretreatment: Silica Gel Clean Up Measurement: GC-ECD Method	EPA 3550 C EPA 8121 EPA 8081 B EPA 8141 B EPA 3660 B EPA 3630 C
Sewage Sludge	Determination of Mercury (Hg) Pretreatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D
Sewage Sludge	Enumeration of Coliform Bacteria MPN Technique	SM 9221 A, B
Sewage Sludge	Enumeration of Fecal Coliform Bacteria MPN Technique	SM 9221 A, E
Sewage Sludge	Enumeration of <i>Escherichia coli</i> MPN Technique	SM 9221 A, F

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sediment	Sampling from Bottom Sediments	TS ISO 5667-12
Sediment	Determination of Polychlorinated Biphenyls (PCBs) (18, 28, 31, 44, 52, 101, 118, 138, 149, 153, 170, 180, 194) Pretreatment: PFE Pretreatment: Sulfur Clean Up Pretreatment: Silica Gel Clean Up Measurement: GC/ECD Method	EPA 3545 A EPA 3660 B EPA 3630 C EPA 8082 A TS EN 17322
Sediment	Dry Matter Content (%) / Moisture (%) Determination Gravimetric Method	SM 2540 G
Sediment	Determination of Organic Matter Walkley-Black Method	In House Method KYTT 721-4 Rev:1 (Adapted from TS 8336)
Sediment	Determination of BTEX (Benzene, Toluene, Ethyl Benzene, Xylene) Pretreatment: Headspace Measurement: GC-MS Method	EPA 5021 A EPA 8260 D
Sediment	Determination of Adsorbable Organic Halogens (AOX) Microcoulometric Titration Method	In House Method KYTÇ 721-74 Rev: 1 (Adapted from DIN 38414 Part 18)
Sediment	Determination of Total Organic Halogens (TOX) Microcoulometric Titration Method	EPA 1649
Sediment	Determination of PAH (Polycyclic Aromatic Hydrocarbons) Naphthalene, Acenaphthalene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a) pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Indeno(1,2,3-c-d)pyrene Pretreatment: PFE Pretreatment: Silica Gel Clean Up Measurement: GC/MS Method	EPA 3545 A EPA 8270 E EPA 3630 C
Sediment	Determination of Hydrocarbons in the Range of C10-C40 Pretreatment: Sample Preparation Pretreatment: Extraction Pretreatment: Florisil Clean Up Measurement: GC-FID Method	TS ISO 14507 TS EN 14039 TS EN ISO 16703
Sediment	Determination of Oil and Grease Pretreatment: Soxhlet Extraction Method Measurement: Gravimetric Method	EPA 9071 B
Sediment	Determination of Nitrogen Modified Kjeldahl Method	TS 8337 ISO 11261
Sediment	Determination of Loss on Ignition of Dry Matter Gravimetric Method	TS EN 12879 ASTM D 7348

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Sediment	Determination of Sodium (Na), Potassium (K), Calcium (Ca), Magnesium (Mg), Aluminium (Al), Copper (Cu), Iron (Fe), Barium (Ba), Zinc (Zn), Cadmium (Cd), Tin (Sn), Chromium (Cr), Lead (Pb), Arsenic (As), Molybdenum (Mo), Cobalt (Co), Nickel (Ni), Lithium (Li), Manganese (Mn), Beryllium (Be), Antimony (Sb), Strontium (Sr), Vanadium (V), Titanium (Ti), Boron (B), Phosphorus (P), Thallium (Tl), Selenium (Se) Pretreatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D TS EN 13650
Sediment	Determination of pH Electrometric Method	TS EN 15933
Sediment	Determination of Phenols 4-Chloro-3-methylphenol, 2-Chlorophenol, 2,4-Dichlorophenol, 2,6-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, Dinoseb (2-sec-butyl-4,6-dinitrophenol), DNOC (2-Methyl-4,6-dinitrophenol), 2-Methylphenol (o-Cresol), 3&4 Methylphenol (m&p-Cresol), 4-Nitrophenol, Pentachlorophenol, Phenol, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2-Nitrophenol Pretreatment: PFE Pretreatment: Silica Gel Clean Up Measurement: GC-MS Method	EPA 3545 A EPA 3630 C EPA 8270 E
Sediment	Determination of Pesticides 1,3,5-Trichlorobenzene, 1,2,4-Trichlorobenzene,1,2,3-Trichlorobenzene, Pentachlorobenzene, Hexachlorobenzene, Pentachloronitrobenzene, Alpha-BHC, Beta-BHC, Gamma-BHC, Delta-BHC, Heptachlor, Aldrin, Isodrin, Heptachlorepoxyde, Trans chlordane, Endosulfan I ,Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 2,4'-DDT, Endrin Aldehyde, Endosulfan sulfate, 4,4'-DDT, Dichlorvos Pretreatment: Ultrasonic Extraction Pretreatment: Sulfur Clean Up Pretreatment: Silica Gel Clean Up Measurement: GC-ECD Method	EPA 3550 C EPA 3660 B EPA 3630 C EPA 8121 EPA 8081 B EPA 8141 B
Sediment	Determination of Mercury (Hg) Pretreatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Biota	Determination of Sodium (Na), Potassium (K), Calcium (Ca), Magnesium (Mg), Aluminium (Al), Copper (Cu), Iron (Fe), Barium (Ba), Silver (Ag), Zinc (Zn), Cadmium (Cd), Tin (Sn), Chromium (Cr), Lead (Pb), Arsenic (As), Molybdenum (Mo), Cobalt (Co), Nickel (Ni), Lithium (Li), Manganese (Mn), Beryllium (Be), Antimony (Sb), Strontium (Sr), Vanadium (V), Titanium (Ti), Boron (B), Phosphorus (P), Selenium (Se), Bismuth (Bi), Sulfur (S) Pretreatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A TS EN 13650 TS EN ISO 11885
Animal and Vegetable Oils and Fats	Determination of Lead (Pb), Iron (Fe), Copper (Cu), Arsenic (As) ICP-OES Method	In House Method (KYTG 721-319 Rev:1) (Modified from Iva Juranovic Cindric, Michaela Zeiner, Ilse Steffan Microchemical Journal 85 (2007))
Vegetable Oil	Determination of Free Fatty Acids Titrimetric Method	AOAC 940.28
Vegetable Oil	Peroxide Determination Titrimetric Method	AOAC 965.33
Vegetable Oil	Determination of Fatty Acids Composition (% m/m Methyl Esters) (Caproic Acid(C6:0), Caprylic Acid(C8:0), Capric Acid (C10:0), Undecanoic Acid(C11:0), Lauric Acid(C12:0), Myristic Acid (C14:0), Palmitic Acid (C16:0), Palmitoleic Acid (C16:1), Heptadecanoic Acid (C17:0), Heptadecenoic Acid (C17:1), Stearic Acid (C18:0), Oleic Acid (C18:1n9c), Linoleic Acid (C18:2n6c), Linolenic Acid (C18:3n3), Arachidic Acid (C20:0), Gadoleic Acid (C20:1), Eicosadienoic Acid (C20:2), Behenic Acid (C22:0), Erucic Acid (C22:1), Docosadienoic Acid (C22:2), Lignoceric Acid (C24:0), Nervonic Acid (C24:1n9) GC-FID Method	EEC 2568/91 (Annex X A and X B)
Vegetable Oil	Determination of Trans Unsaturated Fatty Acids (C18:1 T, C18:2 T + C18:3 T) GC-FID Method	COI/T.20/Doc. No 33 EEC 2568/91 (Annex X A and X B)
Vegetable Oil	Determination of Stigmastadiene Content GC-FID Method	COI/T.20/Doc. No: 11
Olive Oil	Determination of the Composition and Content of Sterol (Cholesterol, Brassicasterol, Campesterol, Campestanol, Stigmasterol, Delta-5,23-Stigmastadienol, Clerosterol, Beta-sitosterol, Sitostanol, Delta-5-Avenasterol, Delta-5,24-Stigmastadienol, Delta-7-Stigmastenol, Total Sterol) GC-FID Method	EEC 2568/91 (Annex V)
Olive Oil	Determination of Erythrodiol and Uvaol (In Total Sterols) Content GC-FID Method	EEC 2568/91 (Annex VI)
Olive Oil	Determination of Ultraviolet Absorbance Expressed As Specific UV Extinction Spectrophotometric Method	EEC 2568/91 (Annex IX) EEC 299/2013

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Olive Oil	Determination of Seed Oils, Maximum Difference Between the Actual and the Theoretical ECN42 Triglyceride Contents HPLC-RID GC-FID Method	COI/T.20/Doc. No.20 EEC 2568/91 (Annex XVIII)
Olive Oil	Determination of Wax Content (C40+C42+C44+C46) GC-FID Method	COI/T.20/Doc.No.18-28 EEC 2568/91 (Annex IV)
Olive Oil	Determination of α -Tocopherols HPLC-FLD Method	AOCS Ce 8-89
Olive Oil	Determination of the Percentage of Palmitic Acid at the 2-position of the Triglycerides by Means of 2-glycerol Monopalmitate GC-FID Method	COI/T.20/Doc.No.23
Olive Oil	Fatty Acid Ethyl Esters (FAEE) GC-FID Method	COI/T.20/ Doc No: 28
Milk	Determination of Protein Kjeldahl Method	AOAC 991.20
Cheese	Dry Matter Determination	TS EN ISO 5534
Cheese	Determination of Total Chloride Volhard Method	AOAC 935.43
Honey and Grape Molasses	Determination of HMF HPLC-UV Method	IHC Chapter 5.1
Honey	Determination of Sugar Composition (Fructose, Glucose, Sucrose) HPLC-RID Method	In House Method (KYTG 721-320 Rev:1) (Modified from AOAC 980.13, 982.14 and 984.15)
Cereals and Cereals Products (Corn and Legumes not included)	Determination of Moisture and Dry Matter	TS EN ISO 712
Cereals and Cereals Products (Starch and Starch Products not included)	Determination of Ash Content	TS EN ISO 2171
Ayran	Determination of Salt Content Volhard Method	AOAC 935.43
Dairy Products, Fruit and Vegetable Products	Determination of Titratable Acidity	TS 1330, TS 591, TS 1018, TS 1125 ISO 750
Beverages	Determination of Alcohol (Ethanol and Methanol) GC-FID Method	ASTM Method D 5135-95
Wine	Determination of Copper (Cu) ICP-OES Method	Method OIV-MA-AS322-13
Food	Determination of Mercury (Hg) ICP-OES Hydride Method	In House Method (KYTG 721-313 Rev:1) (Modified from Microchemical Journal 85 (2007) 136-139; J. of Food Composition and Analysis (2002) 15, NMKL No:161; J. AOAC Int. 2000)

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Accreditation Scope

 <p style="text-align: center; font-size: small;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Food	Determination of Selenium ICP-OES Hydride Method	In House Method (KYTG 721-314 Rev: 1) (Modified from Journal of Food Composition and Analysis (2002) 15)
Food	Determination of Cadmium (Cd), Copper (Cu), Iron (Fe), Zinc (Zn), Tin (Sn), Nickel (Ni), Calcium (Ca), Magnesium (Mg), Potassium (K), Phosphorus (P), Selenium (Se), Arsenic (As) ICP-OES Method	In House Method (KYTG 721-316 Rev:1) (Modified from J. AOAC Int. 2000 Sep-Oct;83 (5):1218-24-J. Of Food Composition and Analysis (2002) 15, NMKL No:161)
Food	Determination of Arsenic (As) ICP-OES Hydride Method	In House Method (KYTG 721-315 Rev:1) (Modified from J. AOAC Int. 2000 Sept.-Oct 83 (5): 1218-24)
Food	Detection of <i>Salmonella</i> spp.	TS EN ISO 6579-1
Food	Detection of <i>Salmonella</i> spp.	AOAC 2013.01 bioMérieux VIDAS UP SPT
Food	Aerobic Colony Count Pour Plate Technique	TS EN ISO 4833-1
Food	Enumeration of <i>Escherichia coli</i> Colony Count Technique	TS ISO 16649-2
Food	Enumeration of Coliform Bacteria Colony Count Technique	TS ISO 4832
Food	Enumeration of Coagulase Positive Staphylococci (<i>Staphylococcus aureus</i> and other species) Colony Count Technique	TS EN ISO 6888-1
Food	Enumeration of <i>Bacillus cereus</i> Colony Count Technique	TS EN ISO 7932
Food	Enumeration of <i>Clostridium perfringens</i> Colony Count Technique	TS EN ISO 7937
Food	Enumeration of Yeasts and Molds Colony Count Technique	TS ISO 21527-1 TS ISO 21527-2
Food	Detection of <i>Listeria monocytogenes</i>	AOAC 2013.11 bioMérieux VIDAS LMX
Food	Detection of Staphylococcal Enterotoxins	bioMérieux VIDAS SET 2 30705
Fertilizers	Determination of Moisture Gravimetric Method	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture - Annex-2 Method: 15.8 EN 12048 AOAC 950.01 TS 2832
Fertilizers	Determination of Ammonia+Nitrate Nitrogen Devarda Method Pretreatment: Distillation (Kjeldahl Method) Measurement: Titrimetric Method	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture-Annex-2 Method:2.2.3 AOAC 892.01 TS EN 15476 TS 2832

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Accreditation Scope

 <p style="font-size: small; margin-top: 5px;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Fertilizers	Determination of Ammonia Nitrogen Pretreatment: Distillation (Kjeldahl Method) Measurement: Titrimetric Method	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture-Annex-2 Method: 2.1 TS EN 15475
Fertilizers	Determination of Total Nitrogen (N) Pretreatment: Boiling with Sulfuric Acid (Kjeldahl Method) Measurement: Titrimetric Method	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture-Annex-2 Method: 2.3.3 TS EN 15478 AOAC 978.02 TS 2832
Organic, Organomineral Fertilizers	Determination of Organic+Ammonia Nitrogen	AOAC 955.04
Organic, Organomineral Fertilizers	Determination of Organic Nitrogen Calculation Method	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture-Annex-2 Method: 2.1 TS EN 15475 AOAC 955.04 In House Method KYTT 721-12
Organic, Organomineral Fertilizers	Determination of Total Organic Carbon	Regulation on Organic, Mineral and Microbial Fertilizers Used in Agriculture-Annex-19 Walkley-Black Method TS 8336
Fertilizers	Determination of Copper (Cu), Iron (Fe), Zinc (Zn), Cadmium (Cd), Chromium (Cr), Arsenic (As), Lead (Pb), Strontium (Sr), Boron (B), Nickel (Ni), Potassium (K), Aluminium (Al), Calcium (Ca), Magnesium (Mg), Sodium (Na), Molybdenum (Mo), Manganese (Mn), Cobalt (Co), Antimony (Sb), Tin (Sn) Pretreatment: Microwave Digestion Measurement: ICP-OES Method	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture-Annex 2 Method: 9.1 - 10.1 - 13 EPA 3051 A EPA 6010 D AOAC 2006.03
Organic, Organomineral Fertilizers	Determination of Loss on Ignition of Dry Mass Gravimetric Method	Regulation on Organic, Mineral and Microbial Fertilizers Used in Agriculture Annex-19 TS EN 12879 ASTM D 7348
Organic, Organomineral Fertilizers	Determination of Free Amino Acids	In House Method (KYTT 721-2) Rev:1 (Agilent App. Note Amino Acid Analysis Using Zorbax Edipse-AAF Columns and the Agilent 1100 HPLC, John W. Henderson, Robert D. Ricker)
Fertilizers	Determination of Extracted Phosphorus (Soluble in Neutral Ammonium Citrate) Pretreatment: Extraction with Neutral Ammonium Citrate Measurement: Gravimetric Method with Quinoline Phosphomolybdate	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture, Annex-2 Method: 3.1.4; Method: 3.2 TS EN 15957 TS EN 15959

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Accreditation Scope

 <p style="font-size: small; text-align: center;">Test TS EN ISO/IEC 17025 AB-0375-T</p>	<p>DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="margin-top: 20px;">Accreditation Nr: AB-0375-T</p> <p>Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Fertilizers	Determination of Extracted Phosphorus (Soluble in Water) Pretreatment: Extraction with Water Measurement: Gravimetric Method with Quinoline Phosphomolybdate	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture, Annex-2 Method: 3.1.6; Method: 3.2 TS EN 15958 TS EN 15959
Fertilizers	Determination of Extracted Phosphorus (Soluble in Mineral Acids) Pretreatment: Extraction with Mineral Acids Measurement: Gravimetric Method with Quinoline Phosphomolybdate	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture, Annex-2 Method: 3.1.1; Method: 3.2 TS EN 15956 TS EN 15959
Fertilizers	Determination of Boron (B), Copper (Cu), Iron (Fe), Zinc (Zn), Calcium (Ca), Cobalt (Co), Sulfur (S), Magnesium (Mg), Manganese (Mn), Molybdenum (Mo), Potassium (K), Sodium (Na) Pretreatment: Extraction with Water Measurement: ICP-OES Method	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture, Annex-2 Method: 8.3 - 9.2 - 10.2 - 10.3 EPA 6010 D
Fertilizers	Determination of Mercury (Hg) Pretreatment: Microwave Digestion Measurement: ICP-OES Method	EPA 3051 A EPA 6010 D
Chemical Fertilizers (Ammonium Nitrate)	Determination of pH Electrometric Method	Regulation on Market Surveillance and Inspection of Fertilizers Used in Agriculture, Annex-2 Method: 7.4 TS 836
Stack Emissions	Stationary Source Emissions — Determination of the mass concentration of Oxygen (O ₂) Measurement: Electrochemical Sensor Method	TS ISO 12039*
Stack Emissions	Stationary Source Emissions — Determination of the mass concentration of Carbon Monoxide (CO) and Carbon Dioxide (CO ₂) Measurement: Electrochemical Sensor Method	TS ISO 12039*
Stack Emissions	Stationary Source Emissions — Determination of the mass concentration of Sulfur dioxide (SO ₂) Measurement: Electrochemical Sensor Method	TS ISO 7935*
Stack Emissions	Stationary Source Emissions — Determination of the Emmissions of Nitrogen Monoxide (NO), Nitrogen Dioxide (NO ₂) and Nitrogen Oxide (NO _x) Electrochemical Sensor Method	EPA CTM 022*
Stack Emissions	Stationary Source Emissions — Determination of Smoke Density Bacharach Method	TS 9503*
Stack Emissions	Stationary Source Emissions — Determination of Mass Concentration of Particulate Matter (20-1000 mg/m ³) Gravimetric Method	TS ISO 9096
Stack Emissions	Stationary Source Emissions — Determination of Dust Emission Amount by In Stack Sampling Gravimetric Method	EPA Method 17

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 TÜRKAK Test TS EN ISO/IEC 17025 AB-0375-T	<p style="text-align: center;">DÜZEN NORWEST Çevre, Gıda Ve Vet. Sğl. Hiz. Eğt. Dnş. Tic. A.Ş.</p> <p style="text-align: center;">Accreditation Nr: AB-0375-T Revision Nr: 015 Date: 03.06.2022</p>
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Tested Materials / Products	Name of Test	Testing Method (National, International standards, in house methods)
Stack Emissions	Stationary Source Emissions — Determination of Dust Emission Amount by Outside Stack Sampling Gravimetric Method	EPA Method 5
Stack Emissions	Stationary Source Emissions - Determination of Low Range Mass Concentration (5-50 mg/m ³) of Dust Gravimetric Method	TS EN 13284-1
Stack Emissions	Stationary Source Emissions - Determination Of Moisture Content In Stack Gases Measurement: Volumetric Method Measurement: Gravimetric Method	EPA Method 4
Stack Emissions	Stationary Source Emissions - Determination of Stack Gas Velocity and Flow Rate Determination of Velocity and Flow of Gas Flows Measurement: L Type Pitot Tube Measurement: S Type Pitot Tube	TS ISO 10780*
Stack Emissions	Determination of Moisture with Moisture Probe (For $\leq 180^{\circ}\text{C}$ Flue Temperature)	In House Method (KYTE 721-10.02)*
Stack Emissions	Determination of Moisture Wet and Thermometer Method (For $\leq 100^{\circ}\text{C}$ Flue Temperature)	In House Method (KYTE 721-10.02)*
Immission (Ambient Air)	Determination of the PM10 Mass Concentration of Suspended Particulate Matter Gravimetric Method	TS EN 12341
Immission (Ambient Air)	Determination of Precipitated Dust Gravimetric Method	TS 2341

* At the customer's on-site, temporary or mobile premises

End of Scope

G. Banu MÜDERRİSOĞLU
Secretary General