



DANAK
TEST Reg nr. 361

Ordrenr: 941832
Sagsnavn: Esum vv

ALS Denmark A/S
Bakkegårdsvej 406 A
DK-3050 Humlebæk
Telefon: +45 4925 0770
www.alsglobal.dk

ANALYSERAPPORT

Esum Vandværk
c/o Vandværkskontoret, Tulstrupvej 4
3400 Hillerød
Att.: Claus Mehlsen

Udskrevet: 04-09-2025
Version: 1
Modtaget: 22-08-2025
Analyseperiode: 22-08-2025 -
04-09-2025
Ordrenr.: 941832

Sagsnavn: Esum vv
Lokalitet: Esum Vandværk
Prøvested: DGU 187.520-1, 3230 Græsted
Udtaget: 22.08.2025 kl. 10:22
Prøvetype: Råvand - Bek. 221 af 25/2/2025, Gruppe B, Boringskontrol +
Prøvetager: LAB/SKN
Kunde: Esum Vandværk, c/o Vandværkskontoret, Tulstrupvej 4, 3400 Hillerød, Att. Claus Mehlsen

| Parameter | Resultat | Enhed | LD | LQ | Metode | Urel (%) |
|---|----------|-------|-------|-------|--|----------|
| Partikler i prøve efter konservering | # | Nej | - | - | - | - |
| Feltmålinger: | | | | | | |
| Prøvetagning, Boring | + | - | | | DS/ISO 5667-11:2009 | |
| Gennemskylningstid | 5 | min | | | Målt i felten | |
| pH ved prøvetagning | 7.7 | pH | 2 | | DS/EN ISO 10523:2012 | |
| Temperatur ved prøvetagning | 10.0 | °C | 0 | | - | |
| Ledningsevne v. ptagning | 59 | mS/m | 1.5 | | DS/EN 27888:2003 | 15 |
| Iltindhold v. ptagning | 1.1 | mg/l | 0.1 | | DS/EN ISO 5814:2012 | 15 |
| Laboratoriets målinger: | | | | | | |
| Mangan, Mn | 0.18 | mg/l | 0.002 | 0.006 | DS/EN ISO 11885:2009 | 20 |
| Calcium, Ca++ | 87 | mg/l | 0.5 | 1.5 | DS/EN ISO 11885:2009 | 15 |
| Magnesium, Mg++ | 14 | mg/l | 0.3 | 0.9 | DS/EN ISO 11885:2009 | 15 |
| Kalium, K+ | 3.1 | mg/l | 0.05 | 0.15 | DS/EN ISO 11885:2009 | 15 |
| Natrium, Na+ | 36 | mg/l | 0.3 | 0.9 | DS/EN ISO 11885:2009 | 15 |
| Jern, Fe | 3.6 | mg/l | 0.01 | 0.03 | DS/EN ISO 11885:2009 | 20 |
| Ammonium+ammoniak, NH4+ | 1.3 | mg/l | 0.004 | 0.012 | DS/ISO 15923-1:2013+DS224:1975Mod | 15 |
| Nitrit, NO2- | <0.0010 | mg/l | 0.001 | 0.003 | DS/ISO 15923-1:2013 | 15 |
| Nitrat, NO3- | <0.10 | mg/l | 0.1 | 0.3 | DS/ISO 15923-1:2013 + beregning | 15 |
| Total phosphor, P | 0.37 | mg/l | 0.003 | 0.009 | DS/EN ISO 6878 Del 7:2004 + DS/EN ISO 15681-2:2018 | 15 |
| Chlorid, Cl- | 42 | mg/l | 0.5 | 1.5 | DS/ISO 15923-1:2013 | 15 |
| Fluorid, F- | 0.39 | mg/l | 0.03 | 0.09 | DS 218:1975,MOD | 15 |
| Sulfat, SO4-- | <0.50 | mg/l | 0.5 | 1.5 | DS/ISO 15923-1:2013 | 15 |
| Hydrogencarbonat, HCO3- | 340 | mg/l | 3 | 9 | DS/EN ISO 9963-1:1996 | 15 |
| Aggressiv kuldioxid, CO2 | <5 | mg/l | 2 | 6 | DS 236:1977 | 15 |
| Methan, CH4 | 2.9 | mg/l | 0.01 | 0.03 | AK129 - HS GC/FID | 20 |
| NVOC | 3.2 | mg/l | 0.1 | 0.3 | DS/EN 1484:1997+SM 5310B:2014 | 15 |
| Hydrogensulfid, H2S | 0.015 | mg/l | 0.010 | 0.03 | DS 278:1976, Auto, Mod + beregning | 15 |
| Arsen, As | 1.1 | µg/l | 0.03 | 0.09 | DS/EN ISO 17294-2:2023 | 20 |
| Bor, B | 140 | µg/l | 10 | 30 | DS/EN ISO 11885:2009 | 20 |
| Barium, Ba | 81 | µg/l | 0.03 | 0.09 | DS/EN ISO 17294-2:2023 | 20 |
| Kobolt, Co | <0.030 | µg/l | 0.030 | 0.09 | DS/EN ISO 17294-2:2023 | 20 |
| Nikkel, Ni | 0.034 | µg/l | 0.03 | 0.09 | DS/EN ISO 17294-2:2023 | 20 |
| 2,6-dichlorphenol | <0.010 | µg/l | 0.010 | 0.03 | AK158 - GC/MS | 30 |
| 1,2,4-triazol | <0.010 | µg/l | 0.010 | 0.03 | AK207 - LC/MS/MS | 30 |
| Pesticider, Drikkevand grundpakke LC/MS | | | | | - - LC/MS/MS | |
| Pesticider, Drikkevand grundpakke GC/MS | | | | | - - GC/MS | |
| 2,6-DCPP (2-(2,6-dichlorphenoxypropionsyre)), 2,6-dichlorprop | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| 4-CPP, (4-Chlorprop) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Aminomethylphosphonsyre, AMPA | <0.010 | µg/l | 0.010 | 0.03 | AK144 - LC/MS/MS | 30 |
| Atrazin | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Bentazon | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |

side 1 af 3

Laboratoriet er akkrediteret af DANAK. Analyseresultaterne gælder kun for den analyserede prøve. Analyserapporten må kun gengives i sin helhed, medmindre skriftlig godkendelse foreligger.

Tegnforklaring, Resultat:
i.p.: Ikke påvist, -: analysen er ikke udført
i rapporten betyder ikke akkrediteret



Ordrenr: 941832
Sagsnavn: Esrum vv

ALS Denmark A/S
Bakkegårdsvej 406 A
DK-3050 Humlebæk
Telefon: +45 4925 0770
www.alsglobal.dk

ANALYSERAPPORT

Prøvenr.: 175562/25

| Parameter | Resultat | Enhed | LD | LQ | Metode | Urel (%) |
|---|----------|-------|-------|-------|-------------------|----------|
| 2,6-Dichlorbenzamid (BAM) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| ETU (Ethylenthiourea) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| 2,6-dichlorbenzoesyre | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Desphenyl-chloridazon, DPC | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Imazalil | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Methyl-desphenyl-chloridazon | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| 4-nitrophenol | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| 2,4-dichlorphenol | <0.010 | µg/l | 0.010 | 0.03 | AK158 - GC/MS | 30 |
| Desethylatrazin | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Desethyl-desisopropylatrazin (DEIA) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Desethyl-hydroxy-atrazin | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Desethylterbutylazin | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Desisopropylatrazin | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Desisopropyl-hydroxy-atrazin | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Dichlobenil | <0.010 | µg/l | 0.010 | 0.03 | AK78 - GC/MS | 30 |
| Dichlorprop(2,4-DP) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Didealkyl-hydroxy-atrazin | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Glyphosat | <0.010 | µg/l | 0.010 | 0.03 | AK144 - LC/MS/MS | 30 |
| Hexazinon | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Hydroxyatrazin | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Hydroxysimazin | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| MCPA | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Mechlorprop(MCPPP) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Metamitron-desamino | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| PPU (IN 70941), (Nedbr. af Rimsulfuron) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Simazin | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| TFMP | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Pentachlorbenzen | <0.010 | µg/l | 0.010 | 0.03 | AK158 - GC/MS/SIM | 30 |
| N,N-Dimethylsulfamid (DMS) | <0.010 | µg/l | 0.010 | 0.03 | AK207 - LC/MS/MS | 30 |
| Chlorothalonilamid-sulfonsyre (R417888) | <0.0050 | µg/l | 0.005 | 0.015 | AK78 - LC/MS/MS | 30 |
| Pesticider, DRV BEK 221:2025 | | - | | | - - LC/MS/MS | |
| Alachlor ESA | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Dimethachlor ESA | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Dimethachlor OA (CGA 50266) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Metazachlor ESA | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Metazachlor OA | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Propachlor ESA | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| t-Sulfinyleddikesyre (Acetochlor SAA) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| CGA 369873 (Dimethachlor metab.) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| [(2,6-Dimethylphenyl)(2-sulfoacetyl)amino]eddikesyre | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Metaldehyd | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| Monuron | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| 4-Bis-amido-3,5,6-trichlorobenzenesulfonat (R471811) (Nedbr. af Chlorothalonil) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| 6-(tert-Butylamino)-1,3,5-triazine-2,4-diol (CGA324007, LM5, nedbr. af Terbutylazin) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| 4-(tert-Butylamino)-6-hydroxy-1-methyl-1,3,5-triazin-2(1H)-one (SYN545666, LM6, nedbr. af Terbutylazin) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |
| 6-Hydroxy-7,7-dimethyl-6,8-dihydroimidazo[1,2-a][1,3,5]triazine-2,4-dion (LM3) | <0.010 | µg/l | 0.010 | 0.03 | AK78 - LC/MS/MS | 30 |

Kommentar

Grundet indhold af HCO₃ > 100 mg/l er detektionsgrænsen for Aggressiv CO₂ hævet fra 2 til 5 mg/l.

side 2 af 3

Laboratoriet er akkrediteret af DANAK. Analyseresultaterne gælder kun for den analyserede prøve. Analyserapporten må kun gengives i sin helhed, medmindre skriftlig godkendelse foreligger.

Tegnforklaring, Resultat:
i.p.: Ikke påvist, -: analysen er ikke udført
i rapporten betyder ikke akkrediteret



DANAK
TEST Reg. nr. 361

Ordrenr: 941832
Sagsnavn: Esrum vv

ALS Denmark A/S
Bakkegårdsvej 406 A
DK-3050 Humlebæk
Telefon: +45 4925 0770
www.alsglobal.dk

ANALYSERAPPORT

Olha Vasylieva

Olha Vasylieva

Kopimodtagere:

Gribskov Kommune
Vedr. vandforsyninger, Rådhusvej 3, 3200 Helsingør

side 3 af 3

Laboratoriet er akkrediteret af DANAK. Analyseresultaterne gælder kun for den analyserede prøve. Analyserapporten må kun gengives i sin helhed, medmindre skriftlig godkendelse foreligger.

Tegnforklaring, Resultat:
i.p.: Ikke påvist, -: analysen er ikke udført
i rapporten betyder ikke akkrediteret