



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

## ANALYSERAPPORT

Sønderborg Vandforsyning A/S  
Ellegårdvej 8  
6400 Sønderborg  
Att.: Susanne Vesten

**Udskrevet:** 09-11-2020  
**Version:** 2  
**Modtaget:** 19-10-2020  
**Analyseperiode:** 19-10-2020 -  
09-11-2020  
**Ordrenr.:** 602013

**Sagsnavn:** Gråsten Vandværk  
**Lokalitet:** Gråsten Vandværk  
**Prøvested:** Stjernevej 63, Tumbleby Børnehaven, 6300 Gråsten  
**Prøve ID:** Hane i køkken  
**Udtaget:** 19.10.2020 kl. 7.56  
**Prøvetype:** Drikkevand - Bek. 1070:2019, Hovedbestanddele  
**Prøvetager:** LAB/UBO  
**Kunde:** Sønderborg Vandforsyning A/S, Ellegårdvej 8, 6400 Sønderborg, Att. Susanne Vesten

Prøvenr.:	212255/20				
Parameter	Resultat	Enhed	Metode	Grænseværdi	Forbruger taphane jvf BEK 1070:2019
Prøvetagning, Taphane (m. flush)	+	-	DS/EN ISO 19458:2006+MST Manual Ptag 4.udg.2017		
Temperatur ved prøvetagning	17.8	°C	-	-	Det bør tilstræbes, at vandet er højst 12°C ved taphanen
Enterokokker	<1	cfu/100 ml	DS/EN ISO 7899-2:2000	<1	
Fluorid, F-	0.15	mg/l	DS/EN ISO 10304-1:2009	1.5 mg/l	
Mangan, Mn	0.001	mg/l	DS/EN ISO 11885:2009	0.05 mg/l	
Natrium, Na+	17	mg/l	DS/EN ISO 11885:2009	175 mg/l	
Ammonium+ammoniak, NH4+	0.015	mg/l	DS/ISO15923-1:2013+DS224:1975Mod	0.05 mg/l	
Nitrit, NO2-	0.003	mg/l	DS/ISO 15923-1:2013	0.1 mg/l	
Nitrat, NO3-	0.19	mg/l	DS/ISO 15923-1:2013 + beregning	50 mg/l	
Chlorid, Cl-	29	mg/l	DS/ISO 15923-1:2013		
Sulfat, SO4--	33	mg/l	DS/ISO 15923-1:2013	250 mg/l	
NVOC	0.86	mg/l	DS/EN 1484:1997+SM 5310B:2014	4 mg/l	
Aluminium, Al	<0.50	µg/l	DS/EN ISO 17294-2:2016	200 µg/l	
Arsen, As	0.52	µg/l	DS/EN ISO 17294-2:2016	5 µg/l	
Bly, Pb	3.4	µg/l	DS/EN ISO 17294-2:2016	5 µg/l	
Cadmium, Cd	0.0068	µg/l	DS/EN ISO 17294-2:2016	3 µg/l	
Chrom, Cr	0.059	µg/l	DS/EN ISO 17294-2:2016	50 µg/l	
Kobber, Cu	53	µg/l	DS/EN ISO 17294-2:2016	2000 µg/l	
Nikkel, Ni	0.32	µg/l	DS/EN ISO 17294-2:2016	20 µg/l	
Zink, Zn	66	µg/l	DS/EN ISO 17294-2:2016	3000 µg/l	
<b>PAH'er vandforsyning, 6 komp.</b>			SM 6440B, 2017		
Fluoranthen	<0.010	µg/l	SM 6440B, 2017	0.1 µg/l	
Benzo(b+j+k)fluoranthener	<0.010	µg/l	SM 6440B, 2017		
Benz(a)pyren	<0.0050	µg/l	SM 6440B, 2017	0.01 µg/l	
Indeno(1,2,3-cd)pyren	<0.010	µg/l	SM 6440B, 2017		
Benzo(ghi)perylen	<0.010	µg/l	SM 6440B, 2017		
PAH, sum (4 komp. jf. bek. 1070, 2019) #	<0.1	µg/l	SM 6440B, 2017	0.1 µg/l	
PAH, sum (MST - 6 komp.) #	i.p.	µg/l	SM 6440B, 2017		
<b>HS chlor. nedbryd.</b>			DS/EN ISO 10301:2000		
Vinylchlorid	<0.020	µg/l	DS/EN ISO 10301:2000	0.5 µg/l	
Epichlorhydrin	*1	<0.10	µg/l	Underleverandør - GC/MS	0.1 µg/l
Pentachlorphenol	<0.010	µg/l	AK158 - GC/MS	0.01 µg/l	
2,4-dichlorphenol	<0.010	µg/l	AK158 - GC/MS	0.1 µg/l	I
2,6-dichlorphenol	<0.010	µg/l	AK158 - GC/MS	0.1 µg/l	
Acrylamid	*1	<0.050	µg/l	Underleverandør - LC/MS/MS	0.1 µg/l
					Anvendelse af kemikalier med indhold heraf bør undgås til vandbehandling

side 1

Laboratoriet er akkrediteret af DANAK. Analyseresultaterne gælder kun for de(n) analyserede prøve(r).  
Analyserapporten må kun gengives i sin helhed, med mindre skriftlig godkendelse foreligger  
Oplysninger om måleusikkerhed findes på [www.alsglobal.dk](http://www.alsglobal.dk)

**Tegnforklaring:**  
#: Ikke akkrediteret i.p.: Ikke påvist  
<: mindre end >: Større end



TEST Reg.nr. 361

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

**ANALYSERAPPORT**

Prøvenr.:		212255/20			
Parameter	Resultat	Enhed	Metode	Grænseværdi	Forbruger taphane jvf BEK 1070:2019
<b>Pesticider, Kartoffelavl</b>	-	-	GC/LC/MS		
<b>Pesticider, Drikkevand grundpakke</b>	-	-	GC/LC/MS		
<b>Pesticider, vand 4 stoffer</b>	-	-	GC/MS		
1,2,4-triazol	<0.010	µg/l	AK207 - LC/MS/MS	0.1 µg/l	
2,6-Dichlorprop (2,6-DCPP)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
2,6-dichlorbenzoesyre	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
4-CPP, (4-Chlorprop)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Aminomethylphosphonsyre, AMPA	<0.010	µg/l	AK144 - LC/MS/MS	0.1 µg/l	
Atrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
2,6-Dichlorbenzamid (BAM)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Bentazon	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
<b>Pesticider, Frugtavl (Diuron)</b>	-	-	AK78 - LC/MS/MS		
Heptachlor	<0.010	µg/l	AK158 - GC/MS	0.03 µg/l	
Aldrin	<0.010	µg/l	AK158 - GC/MS	0.03 µg/l	
Heptachlorepoxid	<0.010	µg/l	AK158 - GC/MS	0.03 µg/l	
Dieldrin	<0.010	µg/l	AK158 - GC/MS	0.03 µg/l	
Desphenyl-chloridazon	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Methyl-desphenyl-chloridazon	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metalaxyl/Metalaxyl-M	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
CGA108906 (Nedbr. af Metalaxyl)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
CGA62826 (Nedbr. af Metalaxyl)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
4-nitrophenol	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desethylatrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desethyldesisopropylatrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desethyl-hydroxy-atrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desethylterbutylazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desisopropylatrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desisopropyl-hydroxy-atrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Dichlobenil	<0.010	µg/l	AK78 - GC/MS	0.1 µg/l	
Dichlorprop(2,4-DP)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Didealkyl-hydroxy-atrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Diuron	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
ETU (Ethylenthiourea)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Glyphosat	<0.010	µg/l	AK144 - LC/MS/MS	0.1 µg/l	
Hexazinon	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Hydroxyatrazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Hydroxysimazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
MCPA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Mechlorprop(MCPP)	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metribuzin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metribuzin-desamino	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Desaminodiketometribuzin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Diketometribuzin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Simazin	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
N,N-Dimethylsulfamid (DMS)	<0.010	µg/l	AK207 - LC/MS/MS	0.1 µg/l	
Chlorothalonilamid-sulfonsyre	<0.0050	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
<b>Pesticider, DRV BEK 1070: 2019</b>	-	-	LC/MS/MS		
Alachlor ESA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Dimethachlor ESA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Dimethachlor OA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metazachlor ESA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Metazachlor OA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Propachlor ESA	<0.010	µg/l	AK78 - LC/MS/MS	0.1 µg/l	
Total alpha aktivitet	*1	<0.04	Bq/l	CSN 75 7611	
Total beta aktivitet	*1	<0.10	Bq/l	CSN 75 7612	
Radon (EMA)	*1	4.2	Bq/l	CSN 75 7624	100 Bq/l
Total indicative dose (TID)	*1	<0.03	mSv/år	CZ_SOP_D06_07_372	
Tritium	*1	<10	Bq/l	CSN ISO 9698	

side 2

Laboratoriet er akkrediteret af DANAK. Analyseresultaterne gælder kun for de(n) analyserede prøve(r).  
 Analyserapporten må kun gengives i sin helhed, med mindre skriftlig godkendelse foreligger  
 Oplysninger om målesikkerhed findes på [www.alsglobal.dk](http://www.alsglobal.dk)

**Tegnforklaring:**  
 #: Ikke akkrediteret i.p.: Ikke påvist  
 <: mindre end >: Større end



**DANAK**  
TEST Reg.nr. 361

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

## ANALYSERAPPORT

### Kommentar

Højest tilladelige værdi er overholdt for de undersøgte parametre.  
Sagsnavn (lokalitet) ændret.  
Denne rapport erstatter version 1.

### Underleverandør

\*1 ALS Czech Republic s.r.o, CAI L1163

Helle Hornemann

### Kopimodtagere:

BHJ, --, 6300 Gråsten  
Chr. Hansen A/S, Sundsnæs 10, 6300 Gråsten  
Stryhns A/S, Teglværksvej 5-11, 6300 Gråsten  
Sønderborg Kommune, Rådhus torvet 10, 6400 Sønderborg