

Pražské vodovody a kanalizace, a.s. - útvar kontroly kvality vody (ÚKKV), Dykova 3, 101 00 Praha 10
Oddělení laboratorní kontroly Praha (OLK Praha), Dykova 3, 101 00 Praha 10, tel.: 221 501 111
ÚKKV (test lab No. 1247) is accredited by Český institut pro akreditaci, o.p.s. according to ČSN EN ISO/IEC 17025:2005

Test record No. 7606/2018

Type of sample: Bottled drinking water

No. of Protocol pages: 4

Sample No.: 7606
Client: OXYLIFEWATER s.r.o.
Vinohradská 343/6, 120 00, Praha 2 - Vinohrady
Sampling date: ---
Place of consumption: See Remark
Remark: Oxygen water - canned drinking water with a high oxygen content, date of production 10.1.2017
Sampled by: Client
Date of acceptance: 19.9.2018 15:00
Date of analysis: 19.9.2018 - 8.10.2018

ÚKKV is not responsible for sampling.

* - Parameters and activities with this label are not subject to accreditation.

Symbol < expresses the result less than the limit of determination.

Explanatory notes:

- L1: Test is performed by Oddělení laboratorní kontroly Praha, Dykova 3, 101 00 Praha 10
L4: Test is performed by Oddělení laboratorní kontroly odpadních vod (OLK OV), Papírenská 6, 160 00 Praha 6
D: These assays were performed by the following suppliers:
ALS Czech Republic, s.r.o. (Test lab No. 1163 accredited by ČIA) - W-PESLMS02, W-PESLMS04, W-ACRLMS01, W-OCPECD04, W-PESLMS05, W-HACN-GMS, W-CLPGMS01, W-HAALMS01, W-OCPECD01
Středočeské vodárny, a.s., Útvar laboratoří pitných a odpadních vod (test lab No. 1429 accredited by ČIA) - SOP No. 46, SOP No. 47

Measurement uncertainty is a combined extended uncertainty (extension coefficient is $k=2$; this corresponds with confidence level 95%).

Measurement uncertainty does not include uncertainty of sampling and does not relate to the results lower than the limit of determination and unobtrusive results.

For microbiological tests, it considers the uncertainty of method determined in accordance with ČSN ISO 29201, without including low numbers.

Test results only concern the tested sample. The Protocol may not be reproduced otherwise than as a whole and without the prior written consent of ÚKKV.

Date of issuance: 8.10.2018

For the accuracy of the Protocol is responsible: Mrs. Ing. Veronika Tomi
Head of Oddělení laboratorní kontroly Praha



Assay name	Unit	Method	Measurement uncertainty	Determined value	
<i>Clostridium perfringens</i>	KTJ/100ml	SOP No. MB 1/15	L1	0	
<i>Escherichia coli</i>	KTJ/100ml	SOP No. MB 1/16	L1	0	
coliform bacteria	KTJ/100ml	SOP No. MB 1/16	L1	0	
1,2-dichloroethane	µg/l	SOP No. SAK-25	L1	<0.05	
acrylamide	D µg/l	W-ACRLMS01		<0.050	
ammonium ions	mg/l	SOP No. DV-4	L1	<0.03	
antimony	µg/l	SOP No. SAK-95	L1	<1.0	
arsenic	µg/l	SOP No. SAK-95	L1	<1.0	
colour	mg/l Pt	SOP No. DV-11	L1	<2	
benzene	µg/l	SOP No. SAK-25	L1	<0.05	
nitrates	mg/l	SOP No. SAK-30 - part A	L1	5%	14.9
fluorides	mg/l	SOP No. SAK-30 - part A	L1	15%	0.20
aluminium	mg/l	SOP No. SAK-95	L1	15%	0.018
magnesium	mg/l	SOP No. SAK-95	L1	15%	13.7
chlorine - unbound	mg/l	SOP No. DV-23 - part A	L1		<0.05
vinyl chloride	µg/l	SOP No. SAK-25	L1		<0.05
chlorides	mg/l	SOP No. SAK-30 - part A	L1	5%	18.5
chrome	µg/l	SOP No. SAK-95	L1		<1.0
cadmium	µg/l	SOP No. SAK-95	L1		<0.1
cyanides - total	mg/l	SOP No. SAK-3	L1		<0.002
manganese	mg/l	SOP No. SAK-95	L1		<0.001
copper	µg/l	SOP No. SAK-95	L1		<5
nickel	µg/l	SOP No. SAK-95	L1	15%	1.5
lead	µg/l	SOP No. SAK-95	L1		<1.0
aldrin	D µg/l	W-OCPECD01			<0.005
dieldrin	D µg/l	W-OCPECD01			<0.01
heptachlor	D µg/l	W-OCPECD01			<0.01
hexachlorobenzene	D µg/l	W-OCPECD01			<0.005
p,p'-DDT	D µg/l	W-OCPECD01			<0.01
lindane	D µg/l	W-OCPECD01			<0.01
methoxychlor	D µg/l	W-OCPECD01			<0.01
alachlor	D µg/l	W-OCPECD01			<0.01
pH - water reaction		SOP No. DV-1	L1	0,06 absolute value	7.57
mercury	µg/l	SOP No. SAK-16	L1		<0.2
selenium	µg/l	SOP No. SAK-95	L1	15%	1.5
sulphates	mg/l	SOP No. SAK-30 - part A	L1	5%	66.4
sodium	mg/l	SOP No. SAK-95	L1	15%	6.6
silver	µg/l	SOP No. SAK-95	L1		<1.0
chloroform	µg/l	SOP No. SAK-25	L1	15%	0.6
bromoform	µg/l	SOP No. SAK-25	L1	15%	1.81
dibromochloromethane	µg/l	SOP No. SAK-25	L1	15%	2.41
bromodichloromethane	µg/l	SOP No. SAK-25	L1	15%	1.26
trihalomethanes	µg/l	SOP No. SAK-25	L1	15%	6.08
calcium	mg/l	SOP No. SAK-95	L1	15%	117.0
calcium and magnesium	P mmol/l	SOP No. SAK-95	L1	15%	3.48
turbidity	ZFn	SOP No. DV-10	L1		<0.50
iron	mg/l	SOP No. DV-14	L1		<0.02
substances dissolved at 105 °C	mg/l	SOP No. SAK-7	L1	8%	433
hydrocarbons C10 - C40	* mg/l	SOPA.32	L4		<0.1
pendimethalin	D µg/l	W-PESLMS02			<0.03

Assay name		Unit	Method	Measurement uncertainty	Determined value
2,4 D (2,4-dichlorophenoxyacetic acid)	D	µg/l	W-PESLMS04		<0.05
MCPA	D	µg/l	W-PESLMS04		<0.05
chlorine - total, active		mg/l	SOP No. DV-23 - part A	L1	<0.05
chlorine - bound		mg/l	SOP No. DV-23 - part A	L1	<0.05
zinc		mg/l	SOP No. SAK-95	L1	<0.010
monobasic fenols		mg/l	SOP No. SAK-8	L1	<0.003
anionic surfactants		mg/l	SOP No. SAK-73	L1	<0.02
total volume activity alpha	D	Bq/l	SOP No. 46	0.025 absolute value	0.09
total volume activity beta	D	Bq/l	SOP No. 47	0.028 absolute value	0.12
dibromoacetonitrile	D*	µg/l	W-HACN-GMS		<0.1
dichloroacetonitrile	D*	µg/l	W-HACN-GMS		<0.1
trichloroacetonitrile	D*	µg/l	W-HACN-GMS		<0.1
2,4-dichlorophenol + 2,5-dichlorophenol	D	µg/l	W-CLPGMS01		<0.2
2,4,6-trichlorophenol	D	µg/l	W-CLPGMS01		<0.1
pentachlorophenol	D	µg/l	W-CLPGMS01		<0.03
2,4,5-T (trichlorophenoxyacetic acid)	D	µg/l	W-PESLMS04		<0.05
Carbofuran	D	µg/l	W-PESLMS02		<0.01
Permethrin	D	µg/l	W-PESLMS05		<0.01
aldicarb	D	µg/l	W-PESLMS02		<0.05
propanyl	D	µg/l	W-PESLMS02		<0.03
alpha-endosulfane	D	µg/l	W-OCPECD01		<0.01
beta-endosulfane	D	µg/l	W-OCPECD01		<0.01
heptachlorepoxyde-cis	D	µg/l	W-OCPECD01		<0.01
chlordan-cis	D	µg/l	W-OCPECD04		<0.01
chlordan-trans	D	µg/l	W-OCPECD04		<0.01
heptachlorepoxyde-trans	D	µg/l	W-OCPECD01		<0.01
dichloroacetic acid (DCAA)	D	µg/l	W-HAALMS01	30%	0.65
trichloroacetic acid (TCAA)	D	µg/l	W-HAALMS01		<0.5

Remarks to the sample No. 7606/2018

P - Remarks to the SOP: Calcium and magnesium (hardness) in mg/l: 130.7 mg/l
 Remark to pH determination: Temperature of the sample 25 ± 3 °C.
 Remark to trihalomethanes determination: Sum of set values of chloroform, bromoform, dibromochloromethane and bromodichloromethane.

Hygienic limit

Investigation level for total volume activity alpha and beta is determined by notice SÚJB No. 422/2016 Collection of Laws (attachment No. 27): Total volume activity alpha 0.2 Bq/l, total volume activity beta 0.5 Bq/l.

Methods used:

W-HACN-GMS	HS-GCMS sub-delivery (DIN 38407-3)
W-CLPGMS01	CZsopD0603158 (US EPA 8041, US EPA 3500, ČSN EN 12673)
W-PESLMS04	CZsopD0603182.A (DIN 38407-35, CEN/TS 15968)
W-OCPECD01	CZsopD0603169 (ČSN EN ISO 6468, US EPA 8081, DIN 38407-3)
W-OCPECD04	CZsopD0603169 (ČSN EN ISO 6468, US EPA 8081, DIN 38407-3)
W-PESLMS02	CZsopD0603183.A (US EPA 535, US EPA 1694)
W-PESLMS05	CZsopD0603183.A (US EPA 535, US EPA 1694)
W-ACRLMS01	CZsopD0603183.A (US EPA 535, US EPA 1694)
SOP No. SAK-73	ČSN EN 903
SOP No. SAK-30 - part A	ČSN EN ISO 10304-1, ČSN EN ISO 10304-4, ČSN EN ISO 15061, EPA 300.1
SOP No. DV-11	ČSN EN ISO 7887 - Method C
SOP No. 46	ČSN 75 7611
SOP No. 47	ČSN 75 7612
SOP No. SAK-3	Instructions of the Merck company
SOP No. MB 1/15	Notice of the Ministry of Health of the Czech Republic No. 252/2004 Collection of Laws, attachment No. 6
W-HAALMS01	CZsopD0603182.A (DIN 38407-35, CEN/TS 15968)
SOP No. SAK-8	ČSN 83 0520, No. 26
SOP No. MB 1/16	ČSN EN ISO 9308-1
SOP No. SAK-95	ČSN EN ISO 17294-1, ČSN EN ISO 17294-2
SOP No. DV-4	Instructions of the Merck company, ČSN ISO 7150-1
SOP No. DV-1	ČSN ISO 10523
SOP No. SAK-7	ČSN 75 7346
SOP No. SAK-16	ČSN 75 7440
SOP No. SAK-25	EPA 502.2
SOP A.32	ČSN EN ISO 9377-2 including change Z1
SOP No. DV-23 - part A	Instructions of the Hach company, ČSN ISO 7393-2
SOP No. DV-10	ČSN EN ISO 7027-1
SOP No. DV-14	Instructions of the Merck company

We recommend that customers who refer to the activity of ÚKKV, which is subject to accreditation, use this text:

"Tested in Pražské vodovody a kanalizace, a.s. - útvar kontroly kvality vody, which is accredited by Český institut pro akreditaci, o.p.s. according to ČSN EN ISO/IEC 17025:2005 to physial-chemical, microbiological and biological testing of drinking water, warm water, bottled water, surface water, raw water, groundwater and waste-water, sediments and drains, water from technological interchanges (interoperative water) and bathing water, including sampling and analyses of operational chemicals, test lab No. 1247."

Combined brand ILAC MRA listed on the Test Protocol cannot be used by customers any more.