



Analysis report

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Information about report

The results of examination refer exclusively to the checked samples.

Results are given in table 1.

Sample characteristics are given in table 2.

The measurement uncertainty is typically below 30%. For the calculation of the uncertainty a coverage factor of 1 is used.

If an analysis is accredited by ISO17025 (RvA L401) is indicated by a yes or a no

Date of the performance of the test: 2014-11-20

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Unit
1	2014012011	DR CALUX	PCDD/PCDF and dl-PCBs (only total TEQ)	LOQ (1.3)	pg TEQ/l water
2	2014012011	ERa CALUX	Estrogens	< LOQ (0.050)	ng 17b-estradiol eq./l water
3	2014012012	DR CALUX	PCDD/PCDF and dl-PCBs (only total TEQ)	LOQ (1.3)	pg TEQ/l water
4	2014012012	ERa CALUX	Estrogens	0.25	ng 17b-estradiol eq./l water
5	2014012013	DR CALUX	PCDD/PCDF and dl-PCBs (only total TEQ)	LOQ (0.84)	pg TEQ/l water
6	2014012013	ERa CALUX	Estrogens	< LOQ (0.020)	ng 17b-estradiol eq./l water
7	2014012014	DR CALUX	PCDD/PCDF and dl-PCBs (only total TEQ)	LOQ (1.0)	pg TEQ/l water
8	2014012014	ERa CALUX	Estrogens	< LOQ (0.030)	ng 17b-estradiol eq./l water
9	2014012015	DR CALUX	PCDD/PCDF and dl-PCBs (only total TEQ)	LOQ (1.5)	pg TEQ/l water
10	2014012015	ERa CALUX	Estrogens	0.14	ng 17b-estradiol eq./l water

For results below the limit of quantification (LOQ), an estimate is given (between parentheses)

Table 2 sample characteristics

No.	Client code	BDS code	Matrix	ISO17025 (RvAL401)	Date arrival	Sealed
1	2014012011	15136	Water	no	2014-11-11	
2	2014012011	15136	Water	yes	2014-11-11	
3	2014012012	15137	Water	no	2014-11-11	
4	2014012012	15137	Water	yes	2014-11-11	
5	2014012013	15138	Water	no	2014-11-11	
6	2014012013	15138	Water	yes	2014-11-11	
7	2014012014	15139	Water	no	2014-11-11	
8	2014012014	15139	Water	yes	2014-11-11	
9	2014012015	15140	Water	no	2014-11-11	
10	2014012015	15140	Water	yes	2014-11-11	

For the method DR CALUX and the parameter PCDD/PCDF and dl-PCBs (only total TEQ) the used method is extraction with organic solvents; the extracts are cleaned on an acid silica column. The cleaned extracts are dissolved in DMSO. The DR CALUX activity is determined (24h exposure) and benchmarked against 2,3,7,8-TCDD. The DR CALUX analysis is done according to p-bds-051

For the method ERa CALUX and the parameter Estrogens the used method is extraction with organic solvents, the extracts are dissolved in DMSO. The ERa CALUX activity is determined (24h exposure) and benchmarked against 17-beta oestradiol. The ERa CALUX analysis is done according to p-bds-052