

Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
2,4-D (2,4-Dichlorphenoxyaceticacid)	PM05 A	µg/l	0.37 ±	0.0168	0.0518	14
	PM05 B***	µg/l	- ±	-	-	-
2,6-Dichlorobenzamide	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.808 ±	0.0327	0.121	15
2-Amino-4-methoxy-6-methyl-1,3,5-triazine	PM05 A***	µg/l	- ±	-	-	-
	PM05 B*	µg/l	- ±	-	-	-
3,5,6-Trichloro-2-pyridinol	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.347 ±	0.0758	0.0937	27
Alachlor	PM05 A	µg/l	0.925 ±	0.048	0.111	12
	PM05 B***	µg/l	- ±	-	-	-
Alachlor-t-acid (Alachlor-OA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.658 ±	0.0354	0.0987	15
Alachlor-t-sulfonic acid (Alachlor-ESA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.973 ±	0.0643	0.126	13
Aldrin	PM05 A	µg/l	0.0862 ±	0.0153	0.0259	30
	PM05 B***	µg/l	- ±	-	-	-
AMPA	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.673 ±	0.0527	0.0875	13
Atrazine	PM05 A	µg/l	0.361 ±	0.00995	0.0397	11
	PM05 B***	µg/l	- ±	-	-	-
Atrazine-2-hydroxy	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.582 ±	0.0424	0.0699	12
Atrazine-desethyl	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.468 ±	0.0127	0.0562	12
Atrazine-desethyl-desisopropyl	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.459 ±	0.0619	0.142	31
Atrazine-desisopropyl	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.321 ±	0.00888	0.0449	14
Azoxystrobin	PM05 A	µg/l	0.27 ±	0.0152	0.0324	12
	PM05 B***	µg/l	- ±	-	-	-
Azoxystrobin-O-demethyl (CyPM)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B*	µg/l	- ±	-	-	-
Bentazone	PM05 A	µg/l	0.249 ±	0.00978	0.0374	15
	PM05 B***	µg/l	- ±	-	-	-
Bromacil	PM05 A	µg/l	0.578 ±	0.0313	0.0809	14
	PM05 B***	µg/l	- ±	-	-	-
Bromoxynil**	PM05 A	µg/l	0.782 ±	0.0773	0.102	13
	PM05 B***	µg/l	- ±	-	-	-
Chloridazon	PM05 A	µg/l	0.293 ±	0.00988	0.038	13
	PM05 B***	µg/l	- ±	-	-	-
Chloridazon-desphenyl	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.402 ±	0.029	0.0442	11
Chloridazon-methyl-desphenyl	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.241 ±	0.0126	0.0313	13

Table of assigned values Pesticides in Accordance with the Drinking Water Ordinance - PM05

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Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
Chlorothalonil Metabolite R471811	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.601 ±	0.0335	0.0601	10
Chlorothalonil Metabolite R611965 (3-carbamyl-2,4,5-trichlorobenzoic acid)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.68 ±	0.0441	0.102	15
Chlorothalonil Metabolite SYN507900**	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.337 ±	0.027	0.0371	11
Chlorothalonil sulfonic acid (Chlorothalonil-ESA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.25 ±	0.029	0.055	22
Clopyralid	PM05 A	µg/l	0.573 ±	0.0531	0.115	20
	PM05 B***	µg/l	- ±	-	-	-
Clothianidin	PM05 A	µg/l	0.288 ±	0.00931	0.0316	11
	PM05 B***	µg/l	- ±	-	-	-
Desaminometamitron**	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.481 ±	0.0179	0.0481	10
Dicamba	PM05 A	µg/l	0.555 ±	0.0454	0.111	20
	PM05 B***	µg/l	- ±	-	-	-
Dichlorprop	PM05 A	µg/l	0.436 ±	0.0213	0.0523	12
	PM05 B***	µg/l	- ±	-	-	-
Dieldrin	PM05 A	µg/l	0.304 ±	0.0362	0.0608	20
	PM05 B***	µg/l	- ±	-	-	-
Dimethachlor	PM05 A	µg/l	0.587 ±	0.0131	0.0587	10
	PM05 B***	µg/l	- ±	-	-	-
Dimethachlor ethane sulfonic acid (CGA 354742, Dimethachlor-ESA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.143 ±	0.00653	0.0143	10
Dimethachlor Metabolite - CGA 369873	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.197 ±	0.00932	0.0394	20
Dimethachlor Metabolite - CGA 373464 (acetic acid methyl ester)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B*	µg/l	- ±	-	-	-
Dimethachlor Metabolite - CGA 373464 (free acid)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B*	µg/l	- ±	-	-	-
Dimethachlor oxalamic acid (CGA 50266, Dimethachlor-OA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.425 ±	0.0253	0.051	12
Dimethenamide	PM05 A	µg/l	0.221 ±	0.0108	0.0221	10
	PM05 B***	µg/l	- ±	-	-	-
Dimethenamide-P-acid (Dimethenamide-OA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.248 ±	0.0186	0.0273	11
Dimethenamide-P-sulfonic acid (Dimethenamide-ESA)	PM05 A***	µg/l	- ±	-	-	-

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Dimethenamide-P-sulfonic acid (Dimethenamide-ESA)	PM05 B	µg/l	0.137 ±	0.0128	0.0234	17
Diuron	PM05 A	µg/l	0.234 ±	0.00764	0.0304	13
	PM05 B***	µg/l	- ±	-	-	-
Ethidimuron**	PM05 A	µg/l	0.526 ±	0.0217	0.0526	10
	PM05 B***	µg/l	- ±	-	-	-
Ethofumesate	PM05 A	µg/l	0.201 ±	0.00602	0.0201	10
	PM05 B***	µg/l	- ±	-	-	-
Flazasulfuron**	PM05 A	µg/l	0.562 ±	0.117	0.146	26
	PM05 B***	µg/l	- ±	-	-	-
Flufenacet	PM05 A	µg/l	0.244 ±	0.00837	0.0244	10
	PM05 B***	µg/l	- ±	-	-	-
Flufenacet oxanilic acid (Flufenacet-OA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.562 ±	0.0682	0.0955	17
Flufenacet sulfonic acid (Flufenacet-ESA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.186 ±	0.00996	0.0186	10
Glufosinate	PM05 A*	µg/l	- ±	-	-	-
	PM05 B***	µg/l	- ±	-	-	-
Glyphosate	PM05 A	µg/l	0.221 ±	0.0372	0.0441	20
	PM05 B***	µg/l	- ±	-	-	-
Heptachlor	PM05 A	µg/l	0.0833 ±	0.0186	0.0333	40
	PM05 B***	µg/l	- ±	-	-	-
Heptachlor epoxid	PM05 A*	µg/l	- ±	-	-	-
	PM05 B*	µg/l	- ±	-	-	-
Hexazinone	PM05 A***	µg/l	0.205 ±	0.00594	0.0266	13
	PM05 B	µg/l	- ±	-	-	-
Imidacloprid	PM05 A	µg/l	0.598 ±	0.0212	0.0897	15
	PM05 B***	µg/l	- ±	-	-	-
Iodosulfuron-methyl	PM05 A	µg/l	0.422 ±	0.0231	0.0422	10
	PM05 B***	µg/l	- ±	-	-	-
Isoproturon	PM05 A	µg/l	0.442 ±	0.00906	0.0442	10
	PM05 B***	µg/l	- ±	-	-	-
Isoproturon-desmethyl	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.184 ±	0.0129	0.0221	12
MCPA	PM05 A	µg/l	0.235 ±	0.0124	0.0353	15
	PM05 B***	µg/l	- ±	-	-	-
MCPB	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.303 ±	0.0153	0.0303	10
MCPP (Mecoprop)	PM05 A	µg/l	0.283 ±	0.0143	0.0368	13
	PM05 B***	µg/l	- ±	-	-	-
Mesosulfuron-methyl	PM05 A	µg/l	0.867 ±	0.0593	0.0867	10
	PM05 B***	µg/l	- ±	-	-	-
Metalaxyl	PM05 A	µg/l	0.595 ±	0.027	0.0595	10
	PM05 B***	µg/l	- ±	-	-	-
Metamitron	PM05 A	µg/l	0.548 ±	0.0176	0.0548	10
	PM05 B***	µg/l	- ±	-	-	-
Metazachlor	PM05 A	µg/l	0.5 ±	0.0169	0.0601	12

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Metazachlor	PM05 B***	µg/l	- ±	-	-	-
Metazachlor ethane sulfonic acid (Metazachlor-ESA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.557 ±	0.0368	0.106	19
Metazachlor Metabolite BH 479-9**	PM05 A***	µg/l	- ±	-	-	-
	PM05 B*	µg/l	- ±	-	-	-
Metazachlor oxanilic acid (Metazachlor-OA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.239 ±	0.0178	0.0502	21
Metolachlor	PM05 A	µg/l	0.696 ±	0.0177	0.104	15
	PM05 B***	µg/l	- ±	-	-	-
Metribuzin	PM05 A	µg/l	0.454 ±	0.0165	0.0454	10
	PM05 B***	µg/l	- ±	-	-	-
Metribuzin-desamino	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.463 ±	0.0667	0.088	19
Metsulfuron-methyl	PM05 A	µg/l	0.142 ±	0.00827	0.0142	10
	PM05 B	µg/l	0.3 ±	0.0254	0.0389	13
N,N-Dimethylsulfamide (DMS)	PM05 A	µg/l	0.33 ±	0.0462	0.0824	25
	PM05 B	µg/l	1.71 ±	0.122	0.256	15
Nicosulfurone	PM05 A	µg/l	0.749 ±	0.0616	0.187	25
	PM05 B***	µg/l	- ±	-	-	-
Nicosulfuron Metabolite UCSN**	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.156 ±	0.0169	0.0219	14
Pethoxamide	PM05 A	µg/l	0.447 ±	0.0398	0.0625	14
	PM05 B***	µg/l	- ±	-	-	-
Propazine	PM05 A	µg/l	0.203 ±	0.00934	0.0263	13
	PM05 B***	µg/l	- ±	-	-	-
Propazine-2-hydroxy	PM05 A***	µg/l	- ±	-	-	-
	PM05 B*	µg/l	- ±	-	-	-
Propiconazole	PM05 A	µg/l	0.395 ±	0.0232	0.0435	11
	PM05 B***	µg/l	- ±	-	-	-
Quinmerac**	PM05 A	µg/l	0.192 ±	0.0134	0.0211	11
	PM05 B***	µg/l	- ±	-	-	-
s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.19 ±	0.0085	0.038	20
s-Metolachlor Metabolite CGA 368208	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.253 ±	0.0216	0.0379	15
s-Metolachlor Metabolite NOA 413173	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.171 ±	0.0146	0.0257	15
s-Metolachlor oxanilic acid (Metolachlor-OA)	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.333 ±	0.0233	0.0466	14
Simazine	PM05 A	µg/l	0.497 ±	0.0194	0.0547	11
	PM05 B***	µg/l	- ±	-	-	-
Terbutylazine	PM05 A	µg/l	0.261 ±	0.00773	0.0287	11
	PM05 B***	µg/l	- ±	-	-	-

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Terbutylazine-2-hydroxy	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.129 ±	0.0103	0.018	14
Terbutylazine-desethyl	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.251 ±	0.00755	0.0277	11
Terbutylazine-desethyl-2-hydroxy	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.426 ±	0.0666	0.0981	23
Terbutylazine Metabolite CGA 324007 (LM5)**	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.147 ±	0.0141	0.0206	14
Terbutylazine Metabolite SYN 545666 (LM6)**	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.241 ±	0.0187	0.0289	12
Terbutylazine Metabolite SYN 546009 (LM3)**	PM05 A***	µg/l	- ±	-	-	-
	PM05 B*	µg/l	- ±	-	-	-
Thiacloprid	PM05 A	µg/l	0.455 ±	0.0114	0.0637	14
	PM05 B***	µg/l	- ±	-	-	-
Thiamethoxam	PM05 A	µg/l	0.282 ±	0.0155	0.0479	17
	PM05 B***	µg/l	- ±	-	-	-
Thifensulfuron-methyl	PM05 A	µg/l	0.197 ±	0.0121	0.0197	10
	PM05 B***	µg/l	- ±	-	-	-
Tolylfluanide	PM05 A***	µg/l	- ±	-	-	-
	PM05 B***	µg/l	- ±	-	-	-
Tribenuron-methyl	PM05 A*	µg/l	- ±	-	-	-
	PM05 B***	µg/l	- ±	-	-	-
Triclopyr	PM05 A	µg/l	0.659 ±	0.0409	0.0659	10
	PM05 B***	µg/l	- ±	-	-	-
Triflursulfuron-methyl	PM05 A***	µg/l	- ±	-	-	-
	PM05 B	µg/l	0.25 ±	0.0538	0.0701	28
Tritosulfuron	PM05 A	µg/l	0.604 ±	0.0236	0.0604	10
	PM05 B***	µg/l	- ±	-	-	-

*For the following substances, the calculated mean values MV +/- U(k=2) based on the data of the accredited laboratories (n) or based on results of the control laboratory (CL) after outlier removal are listed for information.

These can be used for comparison as part of your internal QA measures:

PM05 A: Glufosinate:	MV (n=3; accr.) +/- U(k=2): 0.405 +/- 0.0344 µg/l
Heptachlor epoxid:	MV (n=5; accr.) +/- U(k=2): 0.479 +/- 0.151 µg/l
Tribenuron-methyl:	MV (n=5; accr.) +/- U(k=2): 0.511 +/- 0.0654 µg/l
PM05 B: 2-Amino-4-methoxy-6-methyl-1,3,5-triazine:	MV (n=5; accr.) +/- U(k=2): 0.0901 +/- 0.00901 µg/l
Azoxystrobin-O-demethyl (CyPM):	MV (n=4; accr.) +/- U(k=2): 0.260 +/- 0.00457 µg/l
Dimethachlor Metabolite - CGA 373464 (free acid):	MV (n=3; accr.) +/- U(k=2): 0.648 +/- 0.172 µg/l
Heptachlor epoxid:	MV (n=3; accr.) +/- U(k=2): 0.0736 +/- 0.00366 µg/l
Metazachlor Metabolite BH 479-9**:	MV (n=4; accr.) +/- U(k=2): 0.239 +/- 0.0362 µg/l
Propazine-2-hydroxy:	MV (n=5; accr.) +/- U(k=2): 0.111 +/- 0.0109 µg/l
Terbutylazine Metabolite SYN 546009 (LM3)**:	MV (n=2; accr.) +/- U(k=2): 0.456 +/- 0.316 µg/l
Dimethachlor Metabolite - CGA 373464 (acetic acid methyl ester):	MV (n=5; CL) +/- U(k=2): 0.199 +/- 0.0298 µg/l

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** The assessment of these parameters serves only as an informative value, as there is no accreditation for these parameters.

*** The content of the following substances in the samples is too low. The values listed (<LOD) are for information purposes for the substances below and can be used for comparison as part of your QA measures.

PM05 A: < 0,025 µg/l: 2,6-Dichlorobenzamide
2-Amino-4-methoxy-6-methyl-1,3,5-triazine
3,5,6-Trichloro-2-pyridinol
Alachlor-t-acid (Alachlor-OA)
Alachlor-t-sulfonic acid (Alachlor-ESA)
AMPA
Atrazine-2-hydroxy
Atrazine-desethyl
Atrazine-desethyl-desisopropyl
Atrazine-desisopropyl
Azoxystrobin-O-demethyl (CyPM)
Chloridazon-desphenyl
Chloridazon-methyl-desphenyl
Chlorothalonil Metabolite R471811
Chlorothalonil Metabolite R611965 (3-carbamyl-2,4,5-trichlorobenzoic acid)
Chlorothalonil Metabolite SYN507900**
Chlorothalonil sulfonic acid (Chlorothalonil-ESA)
Desaminometamitron**
Dimethachlor ethane sulfonic acid (CGA 354742, Dimethachlor-ESA)
Dimethachlor Metabolite - CGA 369873
Dimethachlor Metabolite - CGA 373464 (acetic acid methyl ester)
Dimethachlor Metabolite - CGA 373464 (free acid)
Dimethachlor oxalamic acid (CGA 50266, Dimethachlor-OA)
Dimethenamide-P-acid (Dimethenamide-OA)
Dimethenamide-P-sulfonic acid (Dimethenamide-ESA)
Flufenacet oxanilic acid (Flufenacet-OA)
Flufenacet sulfonic acid (Flufenacet-ESA)
Isoproturon-desmethyl
MCPB
Metazachlor ethane sulfonic acid (Metazachlor-ESA)
Metazachlor Metabolite BH 479-9**
Metazachlor oxanilic acid (Metazachlor-OA)
Metribuzin-desamino
Nicosulfuron Metabolite UCSN**
Propazine-2-hydroxy
s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)
s-Metolachlor Metabolite CGA 368208
s-Metolachlor Metabolite NOA 413173
s-Metolachlor oxanilic acid (Metolachlor-OA)
Terbuthylazine-2-hydroxy
Terbuthylazine-desethyl
Terbuthylazine-desethyl-2-hydroxy
Terbuthylazine Metabolite CGA 324007 (LM5)**
Terbuthylazine Metabolite SYN 545666 (LM6)**
Terbuthylazine Metabolite SYN 546009 (LM3)**
Tolylfluanide
Triflurosulfuron-methyl

PM05 B: < 0,0025 µg/l: Aldrin
Dieldrin
Heptachlor

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PM05 B: < 0,025 µg/l: 2,4-D (2,4-Dichlorphenoxyaceticacid)

Alachlor
Atrazine
Azoxystrobin
Bentazone
Bromacil
Bromoxynil**
Chloridazon
Clopyralid
Clothianidin
Dicamba
Dichlorprop
Dimethachlor
Dimethenamid
Diuron
Ethidimuron**
Ethofumesate
Flazasulfuron**
Flufenacet
Glufosinate
Glyphosate
Hexazinone
Imidacloprid
Iodosulfuron-methyl
Isoproturon
MCPA
MCPP (Mecoprop)
Mesosulfuron-methyl
Metalaxyl
Metamitron
Metazachlor
Metolachlor
Metribuzin
Nicosulfurone
Pethoxamide
Propazine
Propiconazole
Quinmerac**
Simazine
Terbutylazine
Thiacloprid
Thiamethoxam
Thifensulfuron-methyl
Tolyfluanide
Tribenuron-methyl
Triclopyr
Tritosulfuron

Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criterion	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criterion [%]	Specified value for the determination of the z-score in % of the assigned value (2 significant digits)