



# UCMR 4 REFERENCE STANDARDS

Chemical contaminant CRMs

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# WE'RE MEETING EPA'S STANDARDS

For certified reference materials

Dr. Ehrenstorfer is proud to contribute to the UCMR 4 effort by developing standards that specifically meet the testing requirements of the program.

The Fourth Unregulated Contaminant Monitoring Rule (UCMR 4) requires the monitoring of 30 chemical contaminants between 2018 and 2020 using analytical methods developed by EPA and consensus organizations. This monitoring provides a basis for future regulatory actions to protect public health.

UCMR provides EPA and others with scientifically valid data on the occurrence of these contaminants in drinking water. The data gained from UCMR 4 testing will assist the EPA in developing regulations that will govern the allowable presence of these contaminants in drinking water.

Please let us know if you have questions or would like to discuss your specific requirements.

**We are here to help.**



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# UCMR 4

## Method 525.3

UCMR 4 Method 525.3 Mix	Product Number	Size
10,000 x MRL in Methanol	DRE-GS09000487ME	5 x 1 mL
Compounds	CAS	Concentration
a-BHC	319-84-6	100 µg/mL
chlorpyrifos	2921-88-2	300 µg/mL
dimethipin	55290-64-7	2000 µg/mL
Ethoprop	13194-48-4	300 µg/mL
oxyfluorfen	42874-03-3	500 µg/mL
permethrin (mixture of isomers)	52645-53-1	400 µg/mL
profenofos	41198-08-7	3000 µg/mL
tebuconazol (Folicur)	107534-96-3	2000 µg/mL
tribufos	78-48-8	700 µg/mL
UCMR 4 Method 525.3 Internal Standard Solution	Product Number	Size
500 µg/mL in Acetone	DRE-GA09000263AC	1 mL
Compounds	CAS	Concentration
acenaphthene-d10	15067-26-2	500 µg/mL
chrysene-d12	1719-03-5	500 µg/mL
phenanthrene-d10	1517-22-2	500 µg/mL
UCMR 4 Method 525.3 Surrogate Mix	Product Number	Size
500 µg/mL in Acetone	DRE-GA09000264AC	1 mL
Compounds	CAS	Concentration
benzo(a)pyrene-d12	63466-71-7	500 µg/mL
1,3-dimethyl-2-nitrobenzene	81-20-9	500 µg/mL
triphenyl phosphate	115-86-6	500 µg/mL

## Method 530

UCMR 4 Method 530 Mix	Product Number	Size
10,000 x MRL in Methanol	DRE-GS09000489ME	5 x 1 mL
Compounds	CAS	Concentration
butylated hydroxyanisole (BHA)	25013-16-5	300 µg/mL
quinoline	91-22-5	200 µg/mL
o-toluidine	95-53-4	70 µg/mL
UCMR 4 Method 530 Internal Standard Solution	Product Number	Size
500 µg/mL in Methanol	DRE-GA09000267ME	1 mL
Compounds	CAS	Concentration
acenaphthene-d10	15067-26-2	500 µg/mL
phenanthrene-d10	1517-22-2	500 µg/mL
UCMR 4 Method 530 Surrogate Mix	Product Number	Size
500 µg/mL in Methanol	DRE-GA09000266ME	1 mL
Compounds	CAS	Concentration
quinoline-d7	34071-94-8	500 µg/mL
o-toluidine-d9	194423-47-7	500 µg/mL

# UCMR 4

## Method 541

UCMR 4 Method 541 Mix	Product Number	Size
10,000 x MRL in Methanol	DRE-GS09000488ME	5 x 1 mL
Compounds	CAS	Concentration
2-Propen-1-ol	107-18-6	500 µg/mL
1-butanol	71-36-3	2000 µg/mL
2-methoxyethanol	109-86-4	400 µg/mL
UCMR 4 Method 541 Internal Standard Solution	Product Number	Size
1000 µg/mL in Methanol	DRE-GA09000269ME	1 mL
Compounds	CAS	Concentration
chlorobenzene-d5	3114-55-4	1000 µg/mL
1,4-dioxane-d8	17647-74-4	1000 µg/mL
UCMR 4 Method 541 Surrogate Mix	Product Number	Size
1000 µg/mL in Methanol	DRE-GA09000270ME	1 mL
Compounds	CAS	Concentration
1-butanol-d10	34193-38-9	1000 µg/mL
2-Propen-1-ol-d6	1173018-56-8	1000 µg/mL

## Method 552.3

UCMR 4 Method 552.3 Mix	Product Number	Size
1,000 x MRL in MTBE	DRE-GS09000490MB	5 x 1 mL
Compounds	CAS	Concentration
bromoacetic acid	79-08-3	300 µg/mL
bromochloroacetic acid	5589-96-8	300 µg/mL
bromodichloroacetic acid	71133-14-7	500 µg/mL
chloroacetic acid	79-11-8	2000 µg/mL
chlorodibromoacetic acid	5278-95-5	300 µg/mL
dibromoacetic acid	631-64-1	300 µg/mL
dichloroacetic acid	79-43-6	200 µg/mL
tribromoacetic acid	75-96-7	2000 µg/mL
trichloroacetic acid	76-03-9	500 µg/mL
EPA Method 552.3 Internal Standard Solution	Product Number	Size
1000 µg/mL in Methanol	DRE-GA09010312ME	1 mL
Compounds	CAS	Concentration
1,2,3-trichloropropane	96-18-4	1000 µg/mL
EPA Method 552.3 Surrogate Mix	Product Number	Size
10,000 µg/mL in MTBE	DRE-GA09010313MB	1 mL
Compounds	CAS	Concentration
2-bromobutanoic acid	80-58-0	10,000 µg/mL

## UCMR 4

### EPA Method 200.8

Germanium Stock Solution, Aqueous	Product Number	Size
Germanium @ 1000 µg/mL in 5% HNO <sub>3</sub> , tr. HF	VHG-PGENF-100	100 mL
	VHG-PGENF-500	500 mL
	CAS	Concentration
	7440-56-4	1,000 µg/mL
Germanium Stock Solution, Aqueous	Product Number	Size
Germanium @ 1000 µg/mL in H <sub>2</sub> O, tr. F-	VHG-PGEW-100	100 mL
	VHG-PGEW-500	500 mL
	CAS	Concentration
	7440-56-4	1,000 µg/mL
Manganese Stock Solution, Aqueous	Product Number	Size
Manganese @ 1000 µg/mL in 5% HNO <sub>3</sub>	VHG-PMN-100	100 mL
	VHG-PMN-500	500 mL
	CAS	Concentration
	7439-96-5	1,000 µg/mL

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