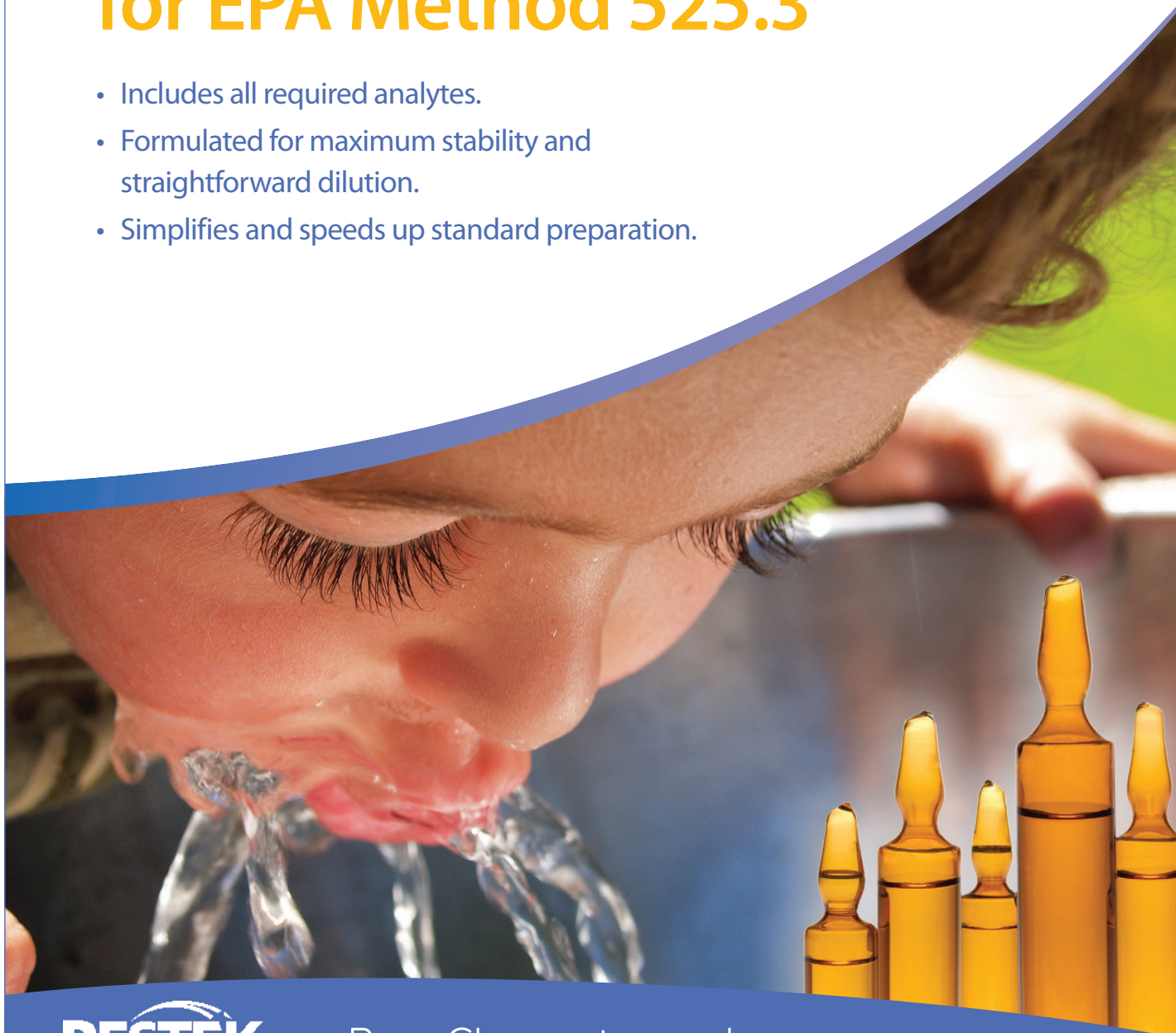


Certified Reference Materials



The First and Only Complete CRMs Formulated Specifically for EPA Method 525.3

- Includes all required analytes.
- Formulated for maximum stability and straightforward dilution.
- Simplifies and speeds up standard preparation.



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Pure Chromatography

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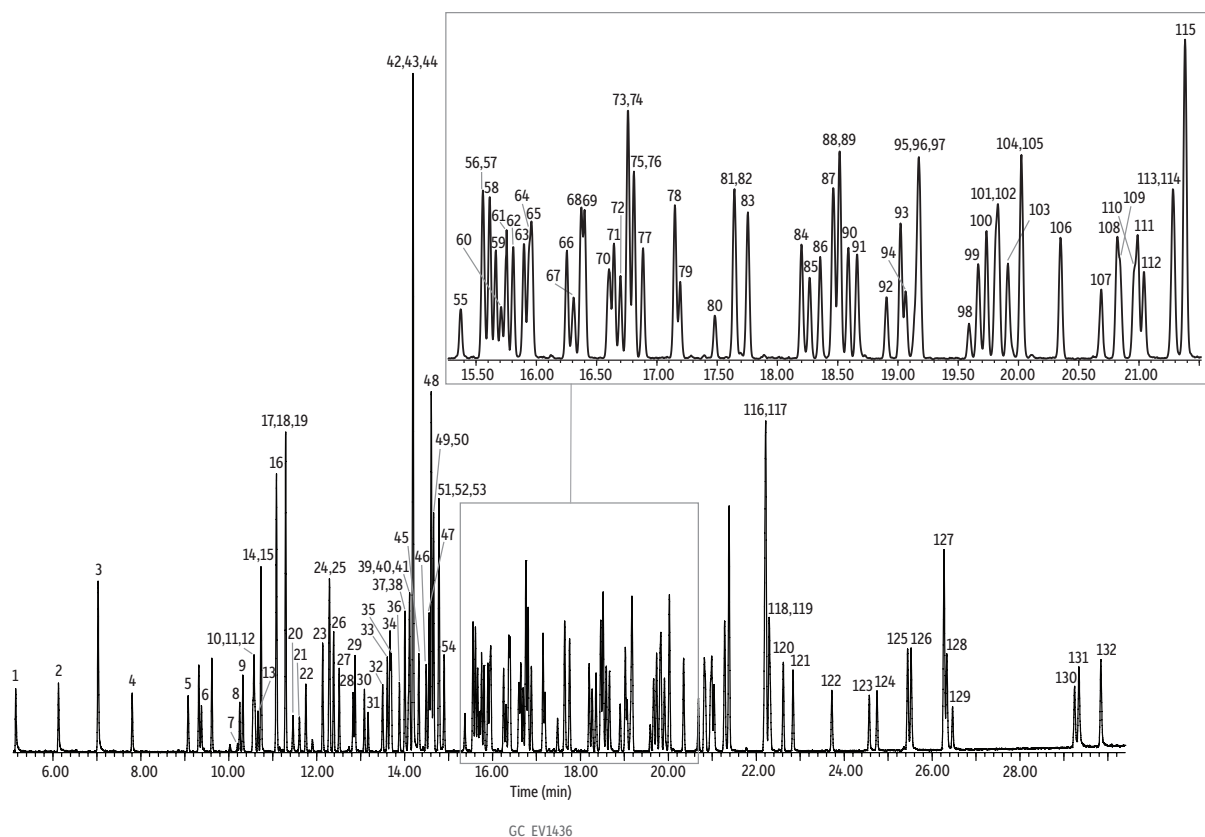
Running EPA Method 525.3?

Only Restek Offers a Complete Suite of Specifically Formulated Certified Reference Materials (CRMs)

- Includes all required analytes and no unnecessary compounds.
- Formulated to provide maximum stability in concentrations convenient for dilution.
- Simplifies and speeds up standard preparation.
- Quantitatively tested to confirm composition; detailed support documentation provided.
- Manufactured and QC-tested in Restek's ISO-accredited labs to satisfy your ISO requirements.
- Running the previous method? Restek also offers a complete set of CRMs for 525.2.

Streamline your 525.3 drinking water testing with our method-specific CRMs!

EPA Method 525.3 Full Analyte List on Rxi®-5Sil MS



(Continued from page 2.)

EPA Method 525.3 Full Analyte List on Rxi®-5Sil MS

Peaks	t _R (min)	Peaks	t _R (min)
1. Diisopropyl methylphosphonate (DIMP)	5.16	78. Diphenamid	17.15
2. Isophorone	6.13	79. MGK 264(a)	17.19
3. 1,3-Dimethyl-2-nitrobenzene (SS)	7.03	80. MGK 264(b)	17.49
4. Dichlorvos	7.80	81. Chlorfenvinphos	17.64
5. Hexachlorocyclopentadiene (HCCPD)	9.08	82. Heptachlor epoxide	17.65
6. S-Ethyl dipropylthiocarbamate (EPTC)	9.38	83. 2,3',4',5'-Tetrachlorobiphenyl	17.76
7. Mevinphos I	10.20	84. trans-Chlordane	18.20
8. Mevinphos II	10.25	85. Tetrachlorvinphos	18.27
9. Butylate	10.32	86. Butachlor	18.35
10. Vernolate	10.55	87. Pyrene	18.46
11. Dimethylphthalate	10.58	88. cis-Chlordane	18.51
12. Etridiazole	10.60	89. Endosulfan I	18.52
13. 2,6-Dinitrotoluene	10.67	90. trans-Nonachlor	18.59
14. Pebulate	10.73	91. Napropamide	18.66
15. Acenaphthylene	10.74	92. Profenofos	18.90
16. Acenaphthene-D10 (IS)	11.09	93. 4,4'-DDE	19.02
17. 2-Chlorobiphenyl	11.29	94. Tribufos (+merphos)	19.06
18. Butylated hydroxytoluene (BHT)	11.30	95. Oxyfluorfen	19.14
19. Chloroneb	11.30	96. Dieldrin	19.16
20. Tebuthiuron	11.46	97. 2,3,3',4',6-Pentachlorobiphenyl	19.18
21. 2,4-Dinitrotoluene	11.61	98. Nitrofen	19.59
22. Molinate	11.75	99. Endrin	19.67
23. N,N-Diethyl-meta-toluamide (DEET)	12.14	100. 2,2',3,4',5',6-Hexachlorobiphenyl	19.74
24. Diethylphthalate	12.28	101. Chlorobenzilate	19.81
25. 4-Chlorobiphenyl	12.30	102. 2,3',4,4',5-Pentachlorobiphenyl	19.83
26. Fluorene	12.39	103. Endosulfan II	19.91
27. Propachlor	12.51	104. 4,4'-DDD	20.02
28. Ethoprop	12.83	105. Ethion	20.02
29. Cycloate	12.87	106. 2,2',4,4',5,5'-Hexachlorobiphenyl	20.35
30. Chlorpropham	13.09	107. Norflurazon	20.68
31. Trifluralin	13.17	108. Butylbenzylphthalate	20.82
32. Phorate	13.50	109. Endosulfan sulfate	20.85
33. α-HCH	13.61	110. 4,4'-DDT	20.96
34. 2,4'-Dichlorobiphenyl	13.67	111. 2,2',3,4',4',5'-Hexachlorobiphenyl	20.99
35. Hexachlorobenzene	13.70	112. Hexazinone	21.04
36. Atraton	13.88	113. Tebuconazole	21.27
37. Prometon	14.01	114. Di(2-ethylhexyl)adipate	21.29
38. Simazine	14.02	115. Triphenyl phosphate (SS)	21.38
39. Dimethipin	14.09	116. Benzo[a]anthracene	22.19
40. Atrazine	14.11	117. Chrysene-D12 (IS)	22.22
41. β-HCH	14.12	118. Chrysene	22.30
42. Pentachlorophenol-C13 (IS)	14.19	119. Methoxychlor	22.32
43. Propazine	14.19	120. 2,2',3,4',4',5',5'-Heptachlorobiphenyl	22.62
44. Pentachlorophenol	14.20	121. Di(2-ethylhexyl)phthalate	22.84
45. γ-HCH (Lindane)	14.33	122. Fenarimol	23.72
46. Pronamide	14.49	123. cis-Permethrin	24.57
47. 2,2',5'-Trichlorobiphenyl	14.56	124. trans-Permethrin	24.75
48. Phenanthrene-D10 (IS)	14.61	125. Benzo[b]fluoranthene	25.44
49. Phenanthrene	14.66	126. Benzo[k]fluoranthene	25.53
50. Chlorothalonil	14.66	127. Benzo[a]pyrene-D12 (SS)	26.27
51. Terbacil	14.77	128. Benzo[a]pyrene	26.33
52. Disulfoton	14.78	129. Fluridone	26.46
53. Anthracene	14.79	130. Indeno[1,2,3-cd]pyrene	29.24
54. δ-HCH	14.90	131. Dibenzo[a,h]anthracene	29.34
55. Phosphamidon	15.37	132. Benzo[g,h,i]perylene	29.84
56. Acetochlor	15.55		
57. Metribuzin	15.56		
58. 2,4,4'-Trichlorobiphenyl	15.61		
59. Vinclozolin	15.66		
60. Methyl parathion	15.71		
61. Alachlor	15.75		
62. Simetryn	15.81		
63. Ametryn	15.90		
64. Heptachlor	15.94		
65. Prometryn	15.96		
66. Terbutryn	16.25		
67. Bromacil	16.31		
68. 2,2',5,5'-Tetrachlorobiphenyl	16.37		
69. Dibutyl phthalate	16.40		
70. Metolachlor	16.60		
71. Chlorpyrifos	16.64		
72. Cyanazine	16.70		
73. Aldrin	16.76		
74. Dacthal (DCPA)	16.77		
75. 2,2',3,5'-Tetrachlorobiphenyl	16.81		
76. Ethyl parathion	16.81		
77. Triadimefon	16.89		

Column	Rxi®-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)			
Sample	EPA Method 525.3 OCP cal standard (cat.# 32542) EPA Method 525.3 OPP cal standard (cat.# 32543) EPA Method 525.3 ONP cal standard (cat.# 32544) EPA Method 525.3 PAH cal standard (cat.# 32545) EPA Method 525.3 PCB cal standard (cat.# 32546) EPA Method 525.3 PAH IS mix (cat.# 32547) EPA Method 525.3 PCP IS (cat.# 32548) EPA Method 525.3 surrogate standard (cat.# 32549) Ethyl acetate 2 µg/mL (Pentachlorophenol concentration: 8 µg/mL)			
Diluent:				
Conc.:				
Injection				
Inj. Vol.:	1 µL pulsed splitless (hold 1 min)			
Liner:	Restek Premium 4 mm single taper w/wool (cat.# 23303.1)			
Inj. Temp.:	275 °C			
Pulse Pressure:	30 psi (206.8kPa)			
Pulse Time:	1 min			
Purge Flow:	80 mL/min			
Oven				
Oven Temp.:	70 °C (hold 1 min) to 200 °C at 10 °C/min to 320 °C at 7 °C/min (hold 3 min)			
Carrier Gas	He, constant flow			
Flow Rate:	1.2 mL/min			
Detector	MS			
Mode:	Scan			
Scan Program:				
	Group	Start Time	Scan Range	Scan Rate
	1	(min) 5	(amu) 45-550	(scans/sec) 5.5
Transfer Line				
Temp.:	280 °C			
Analyzer Type:	Quadrupole			
Source Type:	Extractor			
Source Temp.:	350 °C			
Quad Temp.:	200 °C			
Solvent Delay				
Time:	5 min			
Tune Type:	DFTPP			
Ionization Mode:	EI			
Instrument	Agilent 7890B GC & 5977A MSD			



Ensure accurate, precise results with Restek® CRMs!

EPA Method 525.3 OCP Cal Standard (29 components)

Acetochlor (34256-82-1)	Endrin (72-20-8)
Aldrin (309-00-2)	α -HCH (319-84-6)
<i>cis</i> -Chlordane (5103-71-9)	β -HCH (319-85-7)
<i>trans</i> -Chlordane (5103-74-2)	δ -HCH (319-86-8)
Chlorobenzilate (510-15-6)	γ -HCH (Lindane) (58-89-9)
Chloroneb (2675-77-6)	Heptachlor (76-44-8)
Chlorothalonil (1897-45-6)	Heptachlor epoxide (1024-57-3)
Dacthal (DCPA) (1861-32-1)	Hexachlorobenzene (118-74-1)
4,4'-DDD (72-54-8)	Hexachlorocyclopentadiene (HCCPD) (77-47-4)
4,4'-DDE (72-55-9)	Methoxychlor (72-43-5)
4,4'-DDT (50-29-3)	<i>trans</i> -Nonachlor (39765-80-5)
Dieldrin (60-57-1)	Pentachlorophenol (87-86-5)
Endosulfan I (959-98-8)	<i>cis</i> -Permethrin (54774-45-7)
Endosulfan II (33213-65-9)	<i>trans</i> -Permethrin (51877-74-8)
Endosulfan sulfate (1031-07-8)	

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32542 (ea.)

EPA Method 525.3 OPP Cal Standard (16 components)

Chlorfenvinphos (470-90-6)	Ethyl parathion (56-38-2)
Chlorpyrifos (2921-88-2)	Methyl parathion (298-00-0)
Dichlorvos (62-73-7)	Mevinphos (7786-34-7)
Diisopropyl methylphosphonate (DIMP) (1445-75-6)	Phorate (298-02-2)
Dimethipin (55290-64-7)	Phosphamidon (13171-21-6)
Disulfoton (298-04-4)	Profenos (41198-08-7)
Ethion (563-12-2)	Tetrachlorvinphos (22248-79-9)
Ethoprop (13194-48-4)	Tribufos (78-48-8)

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32543 (ea.)

EPA Method 525.3 ONP Cal Standard (44 components)

Alachlor (15972-60-8)	Metribuzin (21087-64-9)
Ametryn (834-12-8)	MGK 264 (113-48-4)
Atraton (1610-17-9)	Molinate (2212-67-1)
Atrazine (1912-24-9)	Napropamide (15299-99-7)
Bromacil (314-40-9)	Nitrofen (1836-25-5)
Butachlor (23184-66-9)	Norflurazon (27314-13-2)
Butylate (2008-41-5)	Oxyfluorfen (42874-03-3)
Butylated hydroxytoluene (BHT) (128-37-0)	Pebulate (1114-71-2)
Chlorpropham (101-21-3)	Prometon (1610-18-0)
Cyanazine (21725-46-2)	Prometryn (7287-19-6)
Cycloate (1134-23-2)	Pronamide (propyzamide) (23950-58-5)
N,N-Diethyl-meta-toluamide (DEET) (134-62-3)	Propachlor (1918-16-7)
2,4-Dinitrotoluene (121-14-2)	Propazine (139-40-2)
2,6-Dinitrotoluene (606-20-2)	Simetryn (1014-70-6)
Diphenamid (957-51-7)	Simazine (122-34-9)
S-Ethyl dipropylthiocarbamate (EPTC) (759-94-4)	Tebuconazole (107534-96-3)
Etridiazole (2593-15-9)	Tebuthiuron (34014-18-1)
Fenarimol (60168-88-9)	Terbacil (5902-51-2)
Fluridone (59756-60-4)	Terbutryn (886-50-0)
Hexazinone (51235-04-2)	Triadimefon (43121-43-3)
Metolachlor (51218-45-2)	Trifluralin (1582-09-8)
	Vernolate (1929-77-7)
	Vinclozolin (50471-44-8)

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32544 (ea.)

Visit www.restek.com/525.3 for our easy-to-follow calibration standard dilution tables!

EPA Method 525.3 PAH Cal Standard (20 components)

Acenaphthylene (208-96-8)	Dibutyl- <i>n</i> -phthalate (84-74-2)
Anthracene (120-12-7)	Di(2-ethylhexyl)adipate (103-23-1)
Benzo[a]anthracene (56-55-3)	Di(2-ethylhexyl)phthalate (117-81-7)
Benzo[a]pyrene (50-32-8)	Diethylphthalate (84-66-2)
Benzo[b]fluoranthene (205-99-2)	Dimethylphthalate (131-11-3)
Benzo[ghi]perylene (191-24-2)	Fluorene (86-73-7)
Benzo[k]fluoranthene (207-08-9)	Indeno[1,2,3-cd]pyrene (193-39-5)
Butylbenzylphthalate (85-68-7)	Isophorone (78-59-1)
Chrysene (218-01-9)	Phenanthrene (85-01-8)
Dibenz[a,h]anthracene (53-70-3)	Pyrene (129-00-0)

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32545 (ea.)

EPA Method 525.3 PCB Cal Standard (14 components)



500 µg/mL each in acetone, 1 mL/ampul

cat.# 32546 (ea.)

EPA Method 525.3 PAH IS Mix (3 components)

Acenaphthene-D10 (15067-26-2)
Chrysene-D12 (1719-03-5)
Phenanthrene-D10 (1517-22-2)

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32547 (ea.)

EPA Method 525.3 PCP IS

Pentachlorophenol-¹³C₆ (85380-74-1)

1,000 µg/mL in methanol, 1 mL/ampul

cat.# 32548 (ea.)

EPA Method 525.3 Surrogate Standard (3 components)

Benzo[a]pyrene-D12 (63466-71-7)
1,3-Dimethyl-2-nitrobenzene (81-20-9)
Triphenyl phosphate (115-86-6)

500 µg/mL each in acetone, 1 mL/ampul

cat.# 32549 (ea.)

Order today at www.restek.com/525.3

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Pure Chromatography

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Lit. Cat.# EVSS2464-UNV