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Organics in marine sediment

Art. ID	NIST-1941b
Unit	50 g
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM®) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. NIST-1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Information values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified, reference, and information values are provided in NIST-1941b were naturally present in the sediment before processing. A unit of NIST-1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment. Certified values /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Naphthalene	[91-20-3]	848 ± 95	µg/kg		
	Fluorene	[86-73-7]	85 ± 15	µg/kg		
	Phenanthrene	[85-01-8]	406 ± 44	µg/kg		
	Anthracene	[120-12-7]	184 ± 18	µg/kg		
	3-Methylphenanthrene	[832-71-3]	105 ± 13	µg/kg		
	2-Methylphenanthrene	[2531-84-2]	128 ± 14	µg/kg		
	1-Methylphenanthrene	[832-69-9]	73,2 ± 5,9	µg/kg		
	Fluoranthene	[206-44-0]	651 ± 50	µg/kg		
	Pyrene	[129-00-0]	581 ± 39	µg/kg		
	Benzo(a)anthracene	[56-55-3]	335 ± 25	µg/kg		
	Chrysene	[218-01-9]	291 ± 31	µg/kg		
	Triphenylene	[217-59-4]	108 ± 5	µg/kg		
	Benzo(b)fluoranthene	[205-99-2]	453 ± 21	µg/kg		
	Benzo(k)fluoranthene	[207-08-9]	225 ± 18	µg/kg		
	Benzo(e)pyrene	[192-97-2]	325 ± 25	µg/kg		
	Benzo(a)pyrene	[50-32-8]	358 ± 17	µg/kg		
	Perylene	[198-55-0]	397 ± 45	µg/kg		
	Benzo(g,h,i)perylene	[191-24-2]	307 ± 45	µg/kg		
	Indeno(1,2,3-cd)pyrene	[193-39-5]	341 ± 57	µg/kg		
	Dibenz(a,j)anthracene	[224-41-9]	48,9 ± 4,6	µg/kg		
	Dibenz(a,c)anthracene	[215-58-7]	36,7 ± 5,2	µg/kg		
	Dibenz(a,h)anthracene	[53-70-3]	53 ± 10	µg/kg		
	Benzo(b)chrysene	[214-17-5]	53 ± 12	µg/kg		
	Picene	[213-46-7]	46,6 ± 4,7	µg/kg		
	2,4'-Dichlorobiphenyl (	[34883-43-7]	1,65 ± 0,19	µg/kg		

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	PCB 8)			
	2,2',5-Trichlorobipheny l (PCB 18)	[37680-65-2]	2,39 ± 0,29	µg/kg
	2,4,4'-Trichlorobipheny l (PCB 28)	[7012-37-5]	4,52 ± 0,57	µg/kg
	2,4',5-Trichlorobipheny l (PCB 31)	[16606-02-3]	3,18 ± 0,41	µg/kg
	2,2',3,5'-Tetrachlorobi phenyl (PCB 44)	[41464-39-5]	3,85 ± 0,20	µg/kg
	2,2',4,5'-Tetrachlorobi phenyl (PCB 49)	[41464-40-8]	4,34 ± 0,28	µg/kg
	2,2',5,5'-Tetrachlorobi phenyl (PCB 52)	[35693-99-3]	5,24 ± 0,28	µg/kg
	2,3',4,4'-Tetrachlorobi phenyl (PCB 66)	[32598-10-0]	4,96 ± 0,53	µg/kg
	2,2',3,4,5'-Pentachloro biphenyl (PCB 87)	[38380-02-8]	1,14 ± 0,16	µg/kg
	2,2',3,5',6-Pentachloro biphenyl (PCB 95)	[38379-99-6]	3,93 ± 0,62	µg/kg
	2,2',4,4',5-Pentachloro biphenyl (PCB 99)	[38380-01-7]	2,90 ± 0,36	µg/kg
	2,2',4,5,5'-Pentachloro biphenyl (PCB 101)	[37680-73-2]	5,11 ± 0,34	µg/kg
	2,3,3',4,4'-Pentachloro biphenyl (PCB 105)	[32598-14-4]	1,43 ± 0,10	µg/kg
	2,3,3',4',6-Pentachloro biphenyl (PCB 110)	[38380-03-9]	4,62 ± 0,36	µg/kg
	2,3',4,4',5-Pentachloro biphenyl (PCB 118)	[31508-00-6]	4,23 ± 0,19	µg/kg
	2,2',3,3',4,4'-Hexachlo robiphenyl (PCB 128)	[38380-07-3]	0,696 ± 0,044	µg/kg
	2,2',3,4,4',5'-Hexachlo robiphenyl (PCB 138)	[35065-28-2]	3,60 ± 0,28	µg/kg
	2,2',3,4',5',6-Hexachlo robiphenyl (PCB 149)	[38380-04-0]	4,35 ± 0,26	µg/kg
	2,2',4,4',5,5'-Hexachlo robiphenyl (PCB 153)	[35065-27-1]	5,47 ± 0,32	µg/kg
	2,3,3',4,4',5-Hexachlor	[38380-08-4]	0,507 ± 0,090	µg/kg

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	obiphenyl (PCB 156)			
	2,2',3,3',4,4',5-Heptac hlorobiphenyl (PCB 170)	[35065-30-6]	1,35 ± 0,09	µg/kg
	2,2',3,4,4',5,5'-Heptac hlorobiphenyl (PCB 180)	[35065-29-3]	3,24 ± 0,51	µg/kg
	2,2',3,4,4',5',6-Heptac hlorobiphenyl (PCB 183)	[52663-69-1]	0,979 ± 0,087	µg/kg
	2,2',3,4',5,5',6-Heptac hlorobiphenyl (PCB 187)	[52663-68-0]	2,17 ± 0,22	µg/kg
	2,2',3,3',4,4',5,5'-Oct achlorobiphenyl (PCB 19 4)	[35694-08-7]	1,04 ± 0,06	µg/kg
	2,2',3,3',4,4',5,6-Octa chlorobiphenyl (PCB 195)	[52663-78-2]	0,645 ± 0,060	µg/kg
	2,2',3,3',4,5',6,6'-Oct achlorobiphenyl (IUPAC PCB 201, PCB 200)	[40186-71-8]	0,777 ± 0,034	µg/kg
	2,2',3,3',4,4',5,5',6-N onachlorobiphenyl (PCB 206)	[40186-72-9]	2,42 ± 0,19	µg/kg
	Decachlorobiphenyl (PCB 209)	[2051-24-3]	4,86 ± 0,45	µg/kg
	Hexachlorobenzene	[118-74-1]	5,83 ± 0,38	µg/kg
	cis-Chlordane (alpha)	[5103-71-9]	0,85 ± 0,11	µg/kg
	trans-Chlordane (gamma)	[5103-74-2]	0,566 ± 0,093	µg/kg
	cis-Nonachlor	[5103-73-1]	0,378 ± 0,053	µg/kg
	trans-Nonachlor	[39765-80-5]	0,438 ± 0,073	µg/kg
	4,4'-DDE	[72-55-9]	3,22 ± 0,28	µg/kg
	4,4'-DDD	[72-54-8]	4,66 ± 0,46	µg/kg