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Organics in Freeze-Dried Mussel Tissue (Mytilus edulis) - Organics

Art. ID	NIST-2974a
Unit	5 g
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM®) is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, chlorinated pesticides, polybrominated diphenyl ether (PBDE) congeners, hexabromocyclododecane (HBCD) isomers, methylmercury, inorganic mercury, and total mercury in marine bivalve mollusk tissue and similar matrices. All of the constituents for which certified and reference values are provided are naturally present in the freeze-dried mussel tissue. A unit of NIST-2974a consists of one bottle containing approximately 5 g of freeze-dried mussel tissue. Certified values /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
dry-mass basis	Phenanthrene	[85-01-8]	74,4 ±4,7	µg/kg		
dry-mass basis	1-Methylphenanthrene	[832-69-9]	17,6 ± 1,6	µg/kg		
dry-mass basis	2-Methylphenanthrene	[2531-84-2]	28,2 ± 2,6	µg/kg		
dry-mass basis	3-Methylphenanthrene	[832-71-3]	24,1 ± 1,4	µg/kg		
dry-mass basis	9-Methylphenanthrene	[883-20-5]	15,9 ± 1,3	µg/kg		
dry-mass basis	4H-Cyclopenta(def)phenanthrene	[203-64-5]	13,15 ± 0,71	µg/kg		
dry-mass basis	Fluoranthene	[206-44-0]	287 ± 34	µg/kg		
dry-mass basis	Pyrene	[129-00-0]	166 ± 21	µg/kg		
dry-mass basis	1-Methylpyrene	[2381-21-7]	10,69 ± 0,83	µg/kg		
dry-mass basis	4-Methylpyrene	[3353-12-6]	19,77 ± 0,89	µg/kg		
dry-mass basis	Benzo(g,h,i)fluoranthene	[203-12-3]	18,7 ± 1,7	µg/kg		
dry-mass basis	Benzo(c)phenanthrene	[195-19-7]	23,2 ± 1,9	µg/kg		
dry-mass basis	Benzo(a)anthracene	[56-55-3]	31,1 ± 3,9	µg/kg		
dry-mass basis	Chrysene and Triphenylene	[n/a]	123,6 ± 2,9	µg/kg		
dry-mass basis	Benzo(b)fluoranthene	[205-99-2]	41,5 ± 2,6	µg/kg		
dry-mass basis	Benzo(j)fluoranthene	[205-82-3]	21,4 ± 1,1	µg/kg		
dry-mass basis	Benzo(k)fluoranthene	[207-08-9]	18,95 ± 0,54	µg/kg		
dry-mass basis	Benzo(e)pyrene	[192-97-2]	58,9 ± 2,9	µg/kg		
dry-mass basis	Benzo(a)pyrene	[50-32-8]	9,73 ± 0,43	µg/kg		
dry-mass basis	Perylene	[198-55-0]	6,80 ± 0,34	µg/kg		
dry-mass basis	Benzo(g,h,i)perylene	[191-24-2]	23,7 ± 2,2	µg/kg		
dry-mass basis	2,4'-Dichlorobiphenyl (	[34883-43-7]	2,01 ± 0,08	µg/kg		

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	PCB 8)			
dry-mass basis	2,2',5-Trichlorobipheny l (PCB 18)	[37680-65-2]	4,03 ± 0,22	µg/kg
dry-mass basis	2,2',3,5'-Tetrachlorobi phenyl (PCB 44)	[41464-39-5]	16,24 ± 0,71	µg/kg
dry-mass basis	2,2',4,5'-Tetrachlorobi phenyl (PCB 49)	[41464-40-8]	17,1 ± 1,2	µg/kg
dry-mass basis	2,2',5,5'-Tetrachlorobi phenyl (PCB 52)	[35693-99-3]	22,42 ± 0,92	µg/kg
dry-mass basis	2,3',4,4'-Tetrachlorobi phenyl (PCB 66)	[32598-10-0]	20,6 ± 1,1	µg/kg
dry-mass basis	2,3',4',5-Tetrachlorobi phenyl (PCB 70)	[32598-11-1]	15,45 ± 0,64	µg/kg
dry-mass basis	2,4,4',5-Tetrachlorobip henyl (PCB 74)	[32690-93-0]	9,02 ± 0,37	µg/kg
dry-mass basis	2,2',3,4,5'-Pentachloro biphenyl (PCB 87)	[38380-02-8]	14,36 ± 0,56	µg/kg
dry-mass basis	2,2',3,5',6-Pentachloro biphenyl (PCB 95)	[38379-99-6]	23,72 ± 0,49	µg/kg
dry-mass basis	2,2',4,4',5-Pentachloro biphenyl (PCB 99)	[38380-01-7]	24,51 ± 0,54	µg/kg
dry-mass basis	2,2',4,5,5'-Pentachloro biphenyl (PCB 101)	[37680-73-2]	39,84 ± 0,96	µg/kg
dry-mass basis	2,3,3',4,4'-Pentachloro biphenyl (PCB 105)	[32598-14-4]	16,47 ± 0,43	µg/kg
dry-mass basis	2,3,3',4',6-Pentachloro biphenyl (PCB 110)	[38380-03-9]	35,88 ± 0,87	µg/kg
dry-mass basis	2,3',4,4',5-Pentachloro biphenyl (PCB 118)	[31508-00-6]	42,9 ± 2,1	µg/kg
dry-mass basis	2,2',3,3',4,4'-Hexachlo robiphenyl (PCB 128)	[38380-07-3]	8,24 ± 0,33	µg/kg
dry-mass basis	2,2',3,4,4',5'-Hexachlo robiphenyl (PCB 138)	[35065-28-2]	61,5 ± 2,3	µg/kg
dry-mass basis	2,2',3,4',5,5'-Hexachlo robiphenyl (PCB 146)	[51908-16-8]	8,07 ± 0,40	µg/kg
dry-mass basis	2,2',3,4',5',6-Hexachlo robiphenyl (PCB 149)	[38380-04-0]	31,77 ± 0,95	µg/kg
dry-mass basis	2,2',3,5,5',6-Hexachlor	[52663-63-5]	5,99 ± 0,20	µg/kg

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	obiphenyl (PCB 151)			
dry-mass basis	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	[35065-27-1]	78,8 ± 2,5	µg/kg
dry-mass basis	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	[38380-08-4]	5,80 ± 0,25	µg/kg
dry-mass basis	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	[35065-30-6]	2,04 ± 0,08	µg/kg
dry-mass basis	2,2',3,3',4',5,6-Heptachlorobiphenyl (PCB 177)	[52663-70-4]	5,48 ± 0,20	µg/kg
dry-mass basis	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	5,31 ± 0,16	µg/kg
dry-mass basis	2,3,3',4',5,5',6-Heptachlorobiphenyl (PCB 193)	[69782-91-8]		µg/kg
dry-mass basis	2,2',3,4,4',5',6-Heptachlorobiphenyl (PCB 183)	[52663-69-1]	7,06 ± 0,26	µg/kg
dry-mass basis	2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)	[52663-68-0]	15,52 ± 0,48	µg/kg
dry-mass basis	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB 194)	[35694-08-7]	0,485 ± 0,040	µg/kg
dry-mass basis	Hexachlorobenzene	[118-74-1]	0,113 ± 0,007	µg/kg
dry-mass basis	4,4'-DDE	[72-55-9]	17,37 ± 0,82	µg/kg
dry-mass basis	4,4'-DDD	[72-54-8]	13,56 ± 0,58	µg/kg
dry-mass basis	cis-Chlordane (alpha)	[5103-71-9]	8,54 ± 0,17	µg/kg
dry-mass basis	trans-Chlordane (gamma)	[5103-74-2]	7,12 ± 0,15	µg/kg
dry-mass basis	cis-Nonachlor	[5103-73-1]	1,91 ± 0,10	µg/kg
dry-mass basis	trans-Nonachlor	[39765-80-5]	5,60 ± 0,39	µg/kg
dry-mass basis	2,4,4'-Tribromodiphenyl ether (PBDE 28)	[41318-75-6]	0.905 ± 0.051	µg/kg
dry-mass basis	2',3,4-Tribromodiphenyl ether (PBDE 33)	[147217-78-5]		µg/kg
dry-mass basis	2,2',4,5'-Tetrabromodiphenyl ether (PBDE 49)	[243982-82-3]	1.36 ± 0.06	µg/kg
dry-mass basis	2,2',4,4',5-Pentabromodiphenyl ether (PBDE 99)	[60348-60-9]	4.78 ± 0.24	µg/kg
dry-mass basis	2,2',4,4',5,5'-Hexabromodiphenyl ether (PBDE 153)	[68631-49-2]	0.201 ± 0.014	µg/kg

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dry-mass basis	Decabromodiphenyl ether (PBDE 209)	[1163-19-5]	1.99 ± 0.11	µg/kg
dry-mass basis	Methylmercury	[22967-92-6]	69,06 ± 0,81	µg/kg
dry-mass basis	Inorganic Mercury		122 ± 3	µg/kg
dry-mass basis	Mercury (Hg) total		195 ± 3	µg/kg