

**Infant/Adult nutritional powder (milk) - Trace elements, proximates and nutrients (dry ice shipment) - out of stock**

Art. ID	NIST-1849a
Unit	10 packets x 10 g each
Deliverydetails	Dry ice shipment /not restricted

**Description**

NIST-1849a is intended primarily for validation of methods for determining proximates, fatty acids, vitamins, elements, amino acids, and nucleotides in infant and adult nutritional formulas and similar materials. It can also be used for quality assurance when assigning values to in-house reference materials. This material is a milk-based, hybrid infant/adult nutritional powder prepared by a manufacturer of infant formula and adult nutritional products. A unit of NIST-1849a consists of 10 packets, each containing approximately 10 g of material. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Mass fraction as free acid	Octanoic acid (Caprylic acid) (C8:0)	[124-07-2]	0.74 ± 0.14	g/100g		
Mass fraction as free acid	Hexadecanoic acid (Palmitic acid) (C16:0)	[57-10-3]	2.10 ± 0.15	g/100g		
Mass fraction as free acid	(Z)-9-Hexadecenoic acid (Palmitoleic acid) (C16:1 n-7)	[373-49-9]	0.0222 ± 0.0042	g/100g		
Mass fraction as free acid	Octadecanoic acid (Stearic acid) (C18:0)	[57-11-4]	0.809 ± 0.046	g/100g		
Mass fraction as free acid	(Z)-9-Octadecenoic acid (Oleic acid) (C18:1 n-7)	[112-80-1]	5.72 ± 0.58	g/100g		
Mass fraction as free acid	(Z)-11-Octadecenoic acid (Vaccenic acid) (C18:1 n-7)	[506-17-2]	0.196 ± 0.023	g/100g		
Mass fraction as free acid	(Z,Z)-9,12-Octadecadienoic acid (Linoleic acid) (C18:2 n-6)	[60-33-3]	5,24 ± 0,42	g/100g		
Mass fraction as free acid	(Z,Z,Z)-9,12,15-Octadecatrienoic acid (alpha-Linolenic acid) (C18:3 n-3)	[463-40-1]	0.591 ± 0.081	g/100g		
Mass fraction as free acid	Eicosanoic acid (Arachidic acid) (C20:0)	[506-30-9]	0.0822 ± 0.0061	g/100g		
Mass fraction as free acid	(Z,Z,Z,Z)-5,8,11,14-Eic	[506-32-1]	0.123 ± 0.011	g/100g		

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Mass fraction as free acid	Docosanoic acid (Behenic acid) (C22:0)	[112-85-6]	0.0660 ± 0.0057	g/100g
Mass fraction as free acid	(Z,Z,Z,Z,Z,Z)-4,7,10,13,16,19-Docosahexaenoic acid (C22:6) (DHA)	[6217-54-5]	0.0179 ± 0.0024	g/100g
Mass fraction as free acid	Tetracosanoic acid (Lignoceric acid) (C24:0)	[557-59-5]	0.0387 ± 0.0079	g/100g
Mass fraction as free acid	(Z)-15-Tetracosenoic acid (Nervonic Acid) (C24:1 n-9)	[506-37-6]	0.0202 ± 0.0022	g/100g
Mass fraction as free acid	Fat (as the sum of fatty acids as triglycerides)		27.9 ± 2.2	g/100g
Mass fraction as free acid	Saturated Fatty Acids		9.42 ± 0.63	g/100g
Mass fraction as free acid	Cis-Monounsaturated Fatty Acids		11.1 ± 1.2	g/100g
Mass fraction as free acid	Cis-Polyunsaturated Fatty Acids		6.07 ± 0.50	g/100g
Mass fraction as free acid	Omega-3 Fatty Acids		0.568 ± 0.027	g/100g
Mass fraction as free acid	Omega-6 Fatty Acids		5.55 ± 0.33	g/100g
	Cholesterol	[57-88-5]	0.1374 ± 0.0029	ng/g
	Calcium (Ca)	[7440-70-2]	5253 ± 51	mg/kg
	Copper (Cu)	[7440-50-8]	19,78 ± 0,26	mg/kg
	Chromium (Cr)	[7440-47-3]	1,072 ± 0,032	mg/kg
	Iodine (I)	[7553-56-2]	1,29 ± 0,11	mg/kg
	Iron (Fe)	[7439-89-6]	175,6 ± 2,9	mg/kg
	Magnesium (Mg)	[7439-95-4]	1648 ± 36	mg/kg
	Manganese (Mn)	[7439-96-5]	49,59 ± 0,97	mg/kg
	Molybdenum (Mo)	[7439-98-7]	1,707 ± 0,040	mg/kg
	Phosphorus (P)	[7723-14-0]	3990 ± 140	mg/kg
	Potassium (K)	[7440-09-7]	9220 ± 110	mg/kg
	Selenium (Se)	[7782-49-2]	0,812 ± 0,029	mg/kg

Sodium (Na)	[7440-23-5]	4265 ± 83	mg/kg
Zinc (Zn)	[7440-66-6]	151,0 ± 5,6	mg/kg
Ascorbic acid (Vitamin C)	[50-81-7]	784 ± 65	mg/kg
Thiamine (Vitamin B1)	[59-43-8]	12,57 ± 0,98	mg/kg
Riboflavin (Vitamin B2)	[83-88-5]	20,37 ± 0,52	mg/kg
Niacinamide	[98-92-0]	109 ± 10	mg/kg
Pantothenic acid		68,2 ± 1,9	mg/kg
Pyridoxine (Vitamin B6)	[65-23-6]	13,46 ± 0,93	mg/kg
Folic acid	[59-30-3]	2,293 ± 0,062	mg/kg
Biotin	[58-85-5]	1,99 ± 0,13	mg/kg
Choline Ion		1090 ± 110	mg/kg
Carnitine	[541-15-1]	136 ± 14	mg/kg
Retinol (Vitamin A)	[68-26-8]	7,68 ± 0,23	mg/kg
Retinyl Palmitate (Vitamin A)		14.30 ± 0.20	mg/kg
Cholecalciferol (Vitamin D3)	[67-97-0]	0,111 ± 0,017	mg/kg
DL-alpha-Tocopherol (Vitamin E)	[10191-41-0]	158 ± 18	mg/kg
Total alpha-Tocopherol (Vitamin E)	[10191-41-0]	219 ± 16	mg/kg
Phylloquinone (Vitamin K1)	[84-80-0]	1,06 ± 0,17	mg/kg