

## **Infant/Adult Nutritional Formula II (milk/whey/soy-based)**

Art. ID	NIST-1869
Unit	10 pouches x 10 g each
Deliverydetails	Dry ice shipment /not restricted

### Description

This Standard Reference Material (SRM) is intended primarily for evaluation of methods for determining proximates, fatty acids, cholesterol, vitamins, carotenoids, elements, amino acids, nucleotides, and chlorate in infant and adult nutritional formulas and similar materials. This SRM can also be used for quality assurance when assigning values to in-house reference materials. The SRM is a soy, whey, and milk protein concentrate-based, hybrid infant/adult nutritional powder prepared by a manufacturer of infant formula and adult nutritional products. A unit of SRM 1869 consists of 10 packets, each containing approximately 10 g of material. /// Sample value(s) - please see attached certificate also for reference values (Vitamins, Carotenoids, and myo-Inositol, Fatty Acids as Free Fatty Acids, Amino Acids and Taurine)

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Mass Fraction Values	Calcium (Ca)	[7440-70-2]	4560 ± 130	mg/kg	NIST ICP-O ES/ Collab orating la boratories / Manufact urer/LACOM ET FAAS	
Certified Mass Fraction Values	Copper (Cu)	[7440-50-8]	19,00 ± 0,38	mg/kg	NIST ICP-O ES/ Collab orating la boratories / Manufact urer	
Certified Mass Fraction Values	Chlorine (Cl)	[7782-50-5]	5130 ± 130	mg/kg	NIST ICP-O ES/ Collab orating la boratories / Manufact urer	
Certified Mass Fraction Values	Chromium (Cr)	[7440-47-3]	0,859 ± 0,066	mg/kg	Collaborat ing labora tories/ Ma nufacturer / NIST ICP -MS	

Certified Mass Fraction Values	Iodine (I)	[7553-56-2]	1,28 ± 0,15	mg/kg	Collaborating laboratories/ Manufacturer / NIST ICP-MS
Certified Mass Fraction Values	Iron (Fe)	[7439-89-6]	164,7 ± 3,7	mg/kg	NIST ICP-OES/ Collaborating laboratories / Manufacturer
Certified Mass Fraction Values	Magnesium (Mg)	[7439-95-4]	947 ± 10	mg/kg	NIST ICP-OES/ Collaborating laboratories / Manufacturer/LACOMET FAAS
Certified Mass Fraction Values	Manganese (Mn)	[7439-96-5]	46,0 ± 1,6	mg/kg	NIST ICP-OES/ Collaborating laboratories / Manufacturer
Certified Mass Fraction Values	Molybdenum (Mo)	[7439-98-7]	1,612 ± 0,047	mg/kg	Collaborating laboratories/ Manufacturer / NIST ICP-MS
Certified Mass Fraction Values	Phosphorus (P)	[7723-14-0]	4186 ± 57	mg/kg	NIST ICP-OES/ Collaborating laboratories / Manufacturer
Certified Mass Fraction	Potassium (K)	[7440-09-7]	7560 ± 110	mg/kg	NIST ICP-O

Values					ES/ Collaborating laboratories / Manufacturer/LACOM ET FAAS
Certified Mass Fraction Values	Selenium (Se)	[7782-49-2]	0,806 ± 0,083	mg/kg	Collaborating laboratories/ Manufacturer / NIST ICP-MS
Certified Mass Fraction Values	Sodium (Na)	[7440-23-5]	1877 ± 53	mg/kg	NIST ICP-OES/ Collaborating laboratories / Manufacturer/LACOM ET FAAS
Certified Mass Fraction Values	Zinc (Zn)	[7440-66-6]	144,0 ± 3,2	mg/kg	NIST ICP-OES/ Collaborating laboratories / Manufacturer
Certified Mass Fraction Values	Ascorbic acid (Vitamin C)	[50-81-7]	897 ± 43	mg/kg	NIST LC-absorbance/ Collaborating laboratories/ Manufacturer
Certified Mass Fraction Values	Thiamine (Vitamin B1)	[59-43-8]	13,36 ± 0,32	mg/kg	Collaborating laboratories/ Manufacturer / NIST ID-LC-MS/MS
Certified Mass Fraction	Riboflavin (Vitamin B2)	[83-88-5]	13,6 ± 1,5	mg/kg	Collaborat

Values					ing labora tories/ Ma nufacturer / NIST ID- LC-MS/MS
Certified Mass Fraction Values	Niacinamide (Vitamin B3 )	[98-92-0]	98,4 ± 2,2	mg/kg	Collaborat ing labora tories/ Ma nufacturer / NIST ID- LC-MS/MS
Certified Mass Fraction Values	Total Vitamin B3 as Niacinamide	[98-92-0]	99,5 ± 4,4	mg/kg	Collaborat ing labora tories/ NI ST ID-LC-M S/MS
Certified Mass Fraction Values	Pantothenic Acid (Vitamin B5)		64,9 ± 6,6	mg/kg	Collaborat ing labora tories/ Ma nufacturer / NIST ID- LC-MS/MS
Certified Mass Fraction Values	Pyridoxine (Vitamin B6)	[65-23-6]	13,09 ± 0,32	mg/kg	Collaborat ing labora tories/ Ma nufacturer / NIST ID- LC-MS/MS
Certified Mass Fraction Values	Biotin	[58-85-5]	1,89 ± 0,24	mg/kg	Collaborat ing labora tories/ Ma nufacturer / NIST ID- LC-MS/MS
Certified Mass Fraction Values	Total Choline		1612 ± 64	mg/kg	Collaborat ing labora tories/ Ma nufacturer

					/ NIST ID- LC-MS/MS
Certified Mass Fraction Values	Free Carnitine		103,5 ± 4,5	mg/kg	Collaborating laboratories/ Manufacturer
					/ NIST ID- LC-MS/MS
Certified Mass Fraction Values	Cholesterol	[57-88-5]	0,1302 ± 0,0047	mg/kg	Collaborating laboratories/ NIST-ID-GC-MS