

National Institute of Standards & Technology (NIST)
SRM Customer Questionnaire
<[SRM 1849a Infant/Adult Nutritional Formula](#)>

NIST is conducting this survey of recent customers to better design SRM products in the future. You are receiving this questionnaire as a customer of NIST who has purchased at least one unit of <[SRM 1849a Infant/Adult Nutritional Formula](#)> in the past 5 years.

Customer Information

Laboratory Name: [Click here to enter text.](#)

Laboratory Location: [Click here to enter text.](#)

Respondent Name: [Click here to enter text.](#)

Respondent Email: [Click here to enter text.](#)

Respondent Phone: [Click here to enter text.](#)

- I am willing to be contacted by NIST staff via email and/or phone to provide additional information.

Which of the following best describe(s) your laboratory? Check all that apply.

- Academic laboratory
- Government laboratory
- Food manufacturer (QA/QC) laboratory
- Third-party testing laboratory
- Research and development
- Other (please describe): [Click here to enter text.](#)

Which of the following best describe(s) your general research area or interests? Check all that apply.

- Nutrition labeling
- Food safety/contaminants
- Food research (general)
- Dietary supplements research (general)
- Other (please describe): [Click here to enter text.](#)

Use of <SRM 1849a Infant/Adult Nutritional Formula>

1. For which of the following analytes or groups of analytes has your laboratory used <SRM 1849a Infant/Adult Nutritional Formula>? **This is an all-inclusive list. Some categories may be removed if there are no assigned values in the SRM being queried.**

- Cholesterol
- Elements
- Toxic Elements/Contaminants
- Water-Soluble Vitamins
- Fat-Soluble Vitamins
- Carotenoids
- Proximates
- Fatty Acids
- Amino Acids
- Sugars
- Other (e.g., cholesterol, catechins, xanthines, flavonoids)

For every box selected in response to question 1, up to ten follow-up questions will be generated as described below.

a. For which of the following elements has your laboratory used <SRM 1849a Infant/Adult Nutritional Formula>? **This is an all-inclusive list. Some may be removed if there are no assigned values in the SRM being queried.**

Nutritional Elements

- Calcium
- Copper
- Iron
- Magnesium
- Manganese
- Phosphorus
- Potassium
- Sodium
- Zinc

Trace Minerals

- Chromium
- Molybdenum
- Selenium

Other Elements

- Aluminum
- Antimony
- Barium
- Boron
- Bromine
- Cerium
- Cesium
- Chlorine
- Cobalt
- Europium
- Fluoride
- Gadolinium
- Gold
- Hafnium
- Hydrogen
- Iodine

- Lanthanum
- Lithium
- Neodymium
- Nickel
- Nitrogen
- Rubidium
- Samarium
- Scandium
- Silicon
- Silver
- Strontium
- Sulfur
- Terbium
- Thorium
- Tin
- Titanium
- Tungsten
- Uranium

Vanadium

Ytterbium

b. For which of the following toxic elements/contaminants has your laboratory used <SRM 1849a Infant/Adult Nutritional Formula>? **This is an all-inclusive list. Some may be removed if there are no assigned values in the SRM being queried.**

Arsenic

Monomethylarsonic acid (MMA)

Cadmium

Methylmercury

Lead

Acrylamide

Mercury

Aflatoxin B1

Dimethylarsinic acid (DMA)

Aflatoxin B2

Inorganic arsenic (iAs)

Total Aflatoxins

c. For which of the following water-soluble vitamins has your laboratory used <SRM 1849a Infant/Adult Nutritional Formula>? **This is an all-inclusive list. Some may be removed if there are no assigned values in the SRM being queried.**

Ascorbic Acid (Vitamin C)

Total Vitamin B₃ by Microbiological Assay

Biotin

Vitamin B₅

Biotin

Pantothenic Acid

Total Biotin by Microbiological Assay

Total Vitamin B₅ by Microbiological Assay

Carnitine

Vitamin B₆

Choline

Pyridoxal/Pyridoxal Hydrochloride

Choline Ion

Pyridoxamine/Pyridoxamine Dihydrochloride

Folates

Pyridoxine/Pyridoxine Hydrochloride

Folic Acid

Total Vitamin B₆

5-Methyltetrahydrofolate

Total Vitamin B₆ by Microbiological Assay

Total Folate by Microbiological Assay

Myo-inositol

Vitamin B₁₂

Riboflavin (Vitamin B₂)

Cyanocobalamin

Thiamine/Thiamine Hydrochloride (Vitamin B₁)

Total Vitamin B₁₂ by Microbiological Assay

Vitamin B₃

Niacin

Niacinamide

Total Vitamin B₃

d. For which of the following fat-soluble vitamins has your laboratory used <SRM 1849a Infant/Adult Nutritional Formula>? This is an all-inclusive list. Some may be removed if there are no assigned values in the SRM being queried.

- | | |
|--|---|
| <input type="checkbox"/> Vitamin A | <input type="checkbox"/> Vitamin E |
| <input type="checkbox"/> Retinol | <input type="checkbox"/> α -Tocopherol |
| <input type="checkbox"/> Retinyl Palmitate | <input type="checkbox"/> α -Tocopheryl Acetate |
| <input type="checkbox"/> Vitamin D | <input type="checkbox"/> Total α -Tocopherol |
| <input type="checkbox"/> Cholecalciferol (Vitamin D ₃) | <input type="checkbox"/> β -Tocopherol |
| <input type="checkbox"/> Ergocalciferol (Vitamin D ₂) | <input type="checkbox"/> γ -Tocopherol |
| <input type="checkbox"/> Phylloquinone (Vitamin K) | <input type="checkbox"/> γ - + β -Tocopherol |
| | <input type="checkbox"/> δ -Tocopherol |

e. For which of the following carotenoids has your laboratory used <SRM 1849a Infant/Adult Nutritional Formula>? This is an all-inclusive list. Some may be removed if there are no assigned values in the SRM being queried.

- | | |
|--|---|
| <input type="checkbox"/> α -Carotene | <input type="checkbox"/> Total Lutein |
| <input type="checkbox"/> β -Carotene | <input type="checkbox"/> Lycopene |
| <input type="checkbox"/> Total β -Carotene | <input type="checkbox"/> <i>trans</i> -Lycopene |
| <input type="checkbox"/> <i>trans</i> - β -Carotene | <input type="checkbox"/> Total Lycopene |
| <input type="checkbox"/> 9- <i>cis</i> - β -Carotene | <input type="checkbox"/> Total Zeaxanthin |
| <input type="checkbox"/> Total β -cryptoxanthin | |

f. For which of the following proximates has your laboratory used <SRM 1849a Infant/Adult Nutritional Formula>? This is an all-inclusive list. Some may be removed if there are no assigned values in the SRM being queried.

- | | |
|---|--|
| <input type="checkbox"/> Ash | <input type="checkbox"/> Dietary Fiber |
| <input type="checkbox"/> Calories | <input type="checkbox"/> Insoluble |
| <input type="checkbox"/> Carbohydrates | <input type="checkbox"/> Insoluble + High Molecular Weight Soluble |
| <input type="checkbox"/> Fat | <input type="checkbox"/> Low Molecular Weight Soluble |
| <input type="checkbox"/> Total Fat (sum of fatty acids) | <input type="checkbox"/> High Molecular Weight Soluble |
| <input type="checkbox"/> Total Fat (extracted) | <input type="checkbox"/> High Molecular Weight Total |
| <input type="checkbox"/> Moisture | <input type="checkbox"/> Soluble |
| <input type="checkbox"/> Solids | <input type="checkbox"/> Total |

g. For which of the following fatty acids has your laboratory used <[SRM 1849a Infant/Adult Nutritional Formula](#)>? **This is an all-inclusive list. Some may be removed if there are no assigned values in the SRM being queried.**

- | | |
|--|---|
| <input type="checkbox"/> Butyric Acid (C4:0) | <input type="checkbox"/> Gadoleic Acid (C20:1 n-7) |
| <input type="checkbox"/> Caproic Acid (C6:0) | <input type="checkbox"/> Gondoic Acid (C20:1 n-9) |
| <input type="checkbox"/> Caprylic Acid (C8:0) | <input type="checkbox"/> Eicosadienoic Acid (C20:2 n-6) |
| <input type="checkbox"/> Capric Acid (C10:0) | <input type="checkbox"/> Dihomo- γ -linolenic Acid (C20:3 n-6) |
| <input type="checkbox"/> Undecanoic Acid (C11:0) | <input type="checkbox"/> 11,14,17-Eicosatrienoic Acid (C20:3 n-3) |
| <input type="checkbox"/> Lauric Acid (C12:0) | <input type="checkbox"/> EPA (C20:4 n-3) |
| <input type="checkbox"/> Tridecanoic Acid (C13:0) | <input type="checkbox"/> Arachidonic Acid (C20:4 n-6) |
| <input type="checkbox"/> Myristic Acid (C14:0) | <input type="checkbox"/> Heneicosanoic Acid (C21:0) |
| <input type="checkbox"/> Myristoleic Acid (C14:1 n-5) | <input type="checkbox"/> Behenic Acid (C22:0) |
| <input type="checkbox"/> Pentadecanoic Acid (C15:0) | <input type="checkbox"/> Erucic Acid (C22:1 n-9) |
| <input type="checkbox"/> Palmitic Acid (C16:0) | <input type="checkbox"/> 13,16-Docosadienoic Acid (C22:2) |
| <input type="checkbox"/> Palmitoleic Acid (C16:1 n-7) | <input type="checkbox"/> DPA (C22:5 n-3) |
| <input type="checkbox"/> <i>trans</i> -Palmitelaidic Acid (C16:1-9t) | <input type="checkbox"/> DHA (C22:6 n-3) |
| <input type="checkbox"/> Hexadecadienoic Acid (C16:2) | <input type="checkbox"/> Lignoceric Acid (C24:0) |
| <input type="checkbox"/> Margaric Acid (C17:0) | <input type="checkbox"/> Nervonic Acid (C24:1 n-9) |
| <input type="checkbox"/> Margaroleic Acid (C17:1 n-6) | <input type="checkbox"/> <i>cis</i> -Monounsaturated Fat |
| <input type="checkbox"/> Stearic Acid (C18:0) | <input type="checkbox"/> <i>cis</i> -Polyunsaturated Fat |
| <input type="checkbox"/> Vaccenic Acid (C18:1 n-7) | <input type="checkbox"/> Saturated Fat |
| <input type="checkbox"/> Oleic Acid (C18:1 n-9) | <input type="checkbox"/> Total <i>cis</i> -C18:1 |
| <input type="checkbox"/> <i>trans</i> -Vaccenic Acid (C18:1-11t) | <input type="checkbox"/> Total <i>cis</i> -C18:2 |
| <input type="checkbox"/> Elaidic Acid (C18:1-9t) | <input type="checkbox"/> Total <i>cis</i> -C20:1 |
| <input type="checkbox"/> Linoelaidic Acid (C18:2) | <input type="checkbox"/> Total <i>cis</i> -C22:4 |
| <input type="checkbox"/> 9,12-Octadecadienoic Acid (C18:2-9t) | <input type="checkbox"/> Total <i>cis</i> -C22:5 |
| <input type="checkbox"/> 9,12-Octadecadienoic Acid (C18:2-12t) | <input type="checkbox"/> Total <i>trans</i> Fat |
| <input type="checkbox"/> Linoleic Acid (C18:2 n-6) | <input type="checkbox"/> Total <i>trans</i> -C18:1 |
| <input type="checkbox"/> α -Linolenic Acid (C18:3 n-3) | <input type="checkbox"/> Total <i>trans</i> -C18:2 |
| <input type="checkbox"/> γ -Linolenic Acid (C18:3 n-6) | <input type="checkbox"/> Total <i>trans</i> -C18:2 Conjugated |
| <input type="checkbox"/> Stearidonic Acid (C18:4) | <input type="checkbox"/> Total ω -3 Fatty Acids |
| <input type="checkbox"/> Arachidic Acid (C20:0) | <input type="checkbox"/> Total ω -6 Fatty Acids |

h. For which of the following amino acids has your laboratory used <SRM 1849a Infant/Adult Nutritional Formula>? This is an all-inclusive list. Some may be removed if there are no assigned values in the SRM being queried.

- | | | |
|--|---|-------------------------------------|
| <input type="checkbox"/> Alanine | <input type="checkbox"/> Hydroxyproline | <input type="checkbox"/> Proline |
| <input type="checkbox"/> Arginine | <input type="checkbox"/> Isoleucine | <input type="checkbox"/> Serine |
| <input type="checkbox"/> Aspartic Acid | <input type="checkbox"/> L-theanine | <input type="checkbox"/> Taurine |
| <input type="checkbox"/> Cystine | <input type="checkbox"/> Leucine | <input type="checkbox"/> Threonine |
| <input type="checkbox"/> Glutamic Acid | <input type="checkbox"/> Lysine | <input type="checkbox"/> Tryptophan |
| <input type="checkbox"/> Glycine | <input type="checkbox"/> Methionine | <input type="checkbox"/> Tyrosine |
| <input type="checkbox"/> Histidine | <input type="checkbox"/> Phenylalanine | <input type="checkbox"/> Valine |

i. For which of the following sugars has your laboratory used <SRM 1849a Infant/Adult Nutritional Formula>? This is an all-inclusive list. Some may be removed if there are no assigned values in the SRM being queried.

- | | | |
|-----------------------------------|----------------------------------|---------------------------------------|
| <input type="checkbox"/> Fructose | <input type="checkbox"/> Lactose | <input type="checkbox"/> Sucrose |
| <input type="checkbox"/> Glucose | <input type="checkbox"/> Maltose | <input type="checkbox"/> Total Sugars |

j. For which of the following other analytes has your laboratory used <SRM 1849a Infant/Adult Nutritional Formula>? This is an all-inclusive list. Some may be removed if there are no assigned values in the SRM being queried.

- | | | |
|---|--|---|
| <input type="checkbox"/> Anions | <input type="checkbox"/> Genistin | <input type="checkbox"/> Tartaric Acid |
| <input type="checkbox"/> Phosphate | <input type="checkbox"/> Glycitein | |
| <input type="checkbox"/> Sulfate | <input type="checkbox"/> Glycitin | <input type="checkbox"/> Phytosterols |
| <input type="checkbox"/> Catechins | <input type="checkbox"/> Flavonoid Aglycones | <input type="checkbox"/> Campesterol |
| <input type="checkbox"/> Catechin | <input type="checkbox"/> Quercetin | <input type="checkbox"/> β -Sitosterol |
| <input type="checkbox"/> Catechin Monomers | <input type="checkbox"/> Kaempferol | <input type="checkbox"/> Stigmasterol |
| <input type="checkbox"/> Epicatechin | <input type="checkbox"/> Isorhamnetin | <input type="checkbox"/> Cycloartenol |
| <input type="checkbox"/> Epicatechin Gallate | <input type="checkbox"/> Total | <input type="checkbox"/> Brassicasterol |
| <input type="checkbox"/> Epigallocatechin | <input type="checkbox"/> Naphthodianthrones | <input type="checkbox"/> Lupeol |
| <input type="checkbox"/> Epigallocatechin Gallate | <input type="checkbox"/> Hypericin | <input type="checkbox"/> Xanthines |
| <input type="checkbox"/> Gallocatechin Gallate | <input type="checkbox"/> Pseudohypericin | <input type="checkbox"/> Caffeine |
| <input type="checkbox"/> Gallic Acid | <input type="checkbox"/> Organic Acids | <input type="checkbox"/> Theobromine |
| <input type="checkbox"/> Gallocatechin | <input type="checkbox"/> Ascorbic Acid | <input type="checkbox"/> Theophylline |
| <input type="checkbox"/> Epigallocatechin Methylgallate | <input type="checkbox"/> Citric Acid | <input type="checkbox"/> L-theanine |
| <input type="checkbox"/> Cholesterol | <input type="checkbox"/> Galacturonic Acid | <input type="checkbox"/> Terpene Lactones |
| <input type="checkbox"/> Isoflavones | <input type="checkbox"/> Glycolic Acid | <input type="checkbox"/> Ginkgolide A |
| <input type="checkbox"/> Daidzein | <input type="checkbox"/> Isocitric Acid | <input type="checkbox"/> Ginkgolide B |
| <input type="checkbox"/> Daidzin | <input type="checkbox"/> Malic Acid | <input type="checkbox"/> Ginkgolide C |
| <input type="checkbox"/> Genistein | <input type="checkbox"/> Oxalic Acid | <input type="checkbox"/> Ginkgolide J |
| | <input type="checkbox"/> Quinic Acid | <input type="checkbox"/> Bilobalide |
| | <input type="checkbox"/> Shikimic Acid | <input type="checkbox"/> Total Antioxidant Capacity |

Total Polyphenols Total Procyanidins

2. Please list any other analytes or analyte groups that would be beneficial to have assigned in <[SRM 1849a Infant/Adult Nutritional Formula](#)>. [Click here to enter text.](#)
3. Please describe other ways that <[SRM 1849a Infant/Adult Nutritional Formula](#)> could better suit your needs. [Click here to enter text.](#)
4. Please describe other ways that <[SRM 1849a Infant/Adult Nutritional Formula](#)> could better suit your needs. [Click here to enter text.](#)

The coordinators of the NIST Food and Nutrition Reference Materials Program thank you for your participation in this questionnaire.

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