

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.**

- | | |
|---|---|
| <input type="checkbox"/> Arsenic | <input type="checkbox"/> Monomethylarsonic acid (MMA) |
| <input type="checkbox"/> Cadmium | <input type="checkbox"/> Methylmercury |
| <input type="checkbox"/> Lead | <input type="checkbox"/> Acrylamide |
| <input type="checkbox"/> Mercury | <input type="checkbox"/> Aflatoxin B1 |
| <input type="checkbox"/> Dimethylarsinic acid (DMA) | <input type="checkbox"/> Aflatoxin B2 |
| <input type="checkbox"/> Inorganic arsenic (iAs) | <input type="checkbox"/> 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.**

- | | |
|--|---|
| <input type="checkbox"/> Ascorbic Acid (Vitamin C) | <input type="checkbox"/> Vitamin B ₅ |
| <input type="checkbox"/> Biotin | <input type="checkbox"/> Pantothenic Acid |
| <input type="checkbox"/> Biotin | <input type="checkbox"/> Total Vitamin B ₅ by Microbiological Assay |
| <input type="checkbox"/> Total Biotin by Microbiological Assay | |
| <input type="checkbox"/> Carnitine | <input type="checkbox"/> Vitamin B ₆ |
| <input type="checkbox"/> Choline | <input type="checkbox"/> Pyridoxal/Pyridoxal Hydrochloride |
| <input type="checkbox"/> Choline Ion | <input type="checkbox"/> Pyridoxamine/Pyridoxamine Dihydrochloride |
| <input type="checkbox"/> Folates | <input type="checkbox"/> Pyridoxine/Pyridoxine Hydrochloride |
| <input type="checkbox"/> Folic Acid | <input type="checkbox"/> Total Vitamin B ₆ |
| <input type="checkbox"/> 5-Methyltetrahydrofolate | <input type="checkbox"/> Total Vitamin B ₆ by Microbiological Assay |
| <input type="checkbox"/> Total Folate by Microbiological Assay | |
| <input type="checkbox"/> Myo-inositol | <input type="checkbox"/> Vitamin B ₁₂ |
| <input type="checkbox"/> Riboflavin (Vitamin B ₂) | <input type="checkbox"/> Cyanocobalamin |
| <input type="checkbox"/> Thiamine/Thiamine Hydrochloride (Vitamin B ₁) | <input type="checkbox"/> Total Vitamin B ₁₂ by Microbiological Assay |
| <input type="checkbox"/> Vitamin B ₃ | |
| <input type="checkbox"/> Niacin | |
| <input type="checkbox"/> Niacinamide | |
| <input type="checkbox"/> Total Vitamin B ₃ | |
| <input type="checkbox"/> Total Vitamin B ₃ by Microbiological Assay | |

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

This collection of information contains Paperwork Reduction Act (PRA) requirements approved by the Office of Management and Budget (OMB). Notwithstanding any other provisions of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the PRA unless that collection of information displays a currently valid OMB control number. Public reporting burden for this collection is estimated to be **15 minutes per response**, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing this burden, to the National Institute of Standards and Technology, Attn: **Melissa Phillips, NIST, 100 Bureau Drive, Gaithersburg, MD 20899-8392; Email: melissa.phillips@nist.gov.**

OMB Control No. 0693-0033

Expiration Date: 03/31/2016