

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

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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 <sub>5</sub>                                 |
| <input type="checkbox"/> Biotin                                                    | <input type="checkbox"/> Pantothenic Acid                                       |
| <input type="checkbox"/> Biotin                                                    | <input type="checkbox"/> Total Vitamin B <sub>5</sub> by Microbiological Assay  |
| <input type="checkbox"/> Total Biotin by Microbiological Assay                     |                                                                                 |
| <input type="checkbox"/> Carnitine                                                 | <input type="checkbox"/> Vitamin B <sub>6</sub>                                 |
| <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 <sub>6</sub>                           |
| <input type="checkbox"/> 5-Methyltetrahydrofolate                                  | <input type="checkbox"/> Total Vitamin B <sub>6</sub> by Microbiological Assay  |
| <input type="checkbox"/> Total Folate by Microbiological Assay                     |                                                                                 |
| <input type="checkbox"/> Myo-inositol                                              | <input type="checkbox"/> Vitamin B <sub>12</sub>                                |
| <input type="checkbox"/> Riboflavin (Vitamin B <sub>2</sub> )                      | <input type="checkbox"/> Cyanocobalamin                                         |
| <input type="checkbox"/> Thiamine/Thiamine Hydrochloride (Vitamin B <sub>1</sub> ) | <input type="checkbox"/> Total Vitamin B <sub>12</sub> by Microbiological Assay |
| <input type="checkbox"/> Vitamin B <sub>3</sub>                                    |                                                                                 |
| <input type="checkbox"/> Niacin                                                    |                                                                                 |
| <input type="checkbox"/> Niacinamide                                               |                                                                                 |
| <input type="checkbox"/> Total Vitamin B <sub>3</sub>                              |                                                                                 |
| <input type="checkbox"/> Total Vitamin B <sub>3</sub> 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"/> $\alpha$ -Tocopherol             |
| <input type="checkbox"/> Retinyl Palmitate                         | <input type="checkbox"/> $\alpha$ -Tocopheryl Acetate     |
| <input type="checkbox"/> Vitamin D                                 | <input type="checkbox"/> Total $\alpha$ -Tocopherol       |
| <input type="checkbox"/> Cholecalciferol (Vitamin D <sub>3</sub> ) | <input type="checkbox"/> $\beta$ -Tocopherol              |
| <input type="checkbox"/> Ergocalciferol (Vitamin D <sub>2</sub> )  | <input type="checkbox"/> $\gamma$ -Tocopherol             |
| <input type="checkbox"/> Phylloquinone (Vitamin K)                 | <input type="checkbox"/> $\gamma$ - + $\beta$ -Tocopherol |
|                                                                    | <input type="checkbox"/> $\delta$ -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"/> $\alpha$ -Carotene                | <input type="checkbox"/> Total Lutein           |
| <input type="checkbox"/> $\beta$ -Carotene                 | <input type="checkbox"/> Lycopene               |
| <input type="checkbox"/> Total $\beta$ -Carotene           | <input type="checkbox"/> <i>trans</i> -Lycopene |
| <input type="checkbox"/> <i>trans</i> - $\beta$ -Carotene  | <input type="checkbox"/> Total Lycopene         |
| <input type="checkbox"/> 9- <i>cis</i> - $\beta$ -Carotene | <input type="checkbox"/> Total Zeaxanthin       |
| <input type="checkbox"/> Total $\beta$ -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- $\gamma$ -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"/> $\alpha$ -Linolenic Acid (C18:3 n-3)        | <input type="checkbox"/> Total <i>trans</i> -C18:2                    |
| <input type="checkbox"/> $\gamma$ -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 $\omega$ -3 Fatty Acids                |
| <input type="checkbox"/> Arachidic Acid (C20:0)                      | <input type="checkbox"/> Total $\omega$ -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"/> $\beta$ -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.*

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