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
☐ Cadmium
☐ Lead
☐ Mercury
☐ Dimethylarsinic acid (DMA)
☐ Inorganic arsenic (iAs)

☐ Monomethylarsonic acid (MMA)
☐ Methylmercury
☐ Acrylamide
☐ Aflatoxin B1
☐ Aflatoxin B2
☐ 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)
☐ Biotin
　☐ Biotin
　☐ Total Biotin by Microbiological Assay
☐ Carnitine
☐ Choline
☐ Choline Ion
☐ Folates
　☐ Folic Acid
　☐ 5-Methyltetrahydrofolate
　☐ Total Folate by Microbiological Assay
☐ Myo-inositol
☐ Riboflavin (Vitamin B_2)
☐ Thiamine/Thiamine Hydrochloride (Vitamin B_1)
☐ Vitamin B_3
　☐ Niacin
　☐ Niacinamide
　☐ Total Vitamin B_3
　☐ Total Vitamin B_3 by Microbiological Assay

☐ Vitamin B_5
　☐ Pantothenic Acid
　☐ Total Vitamin B_5 by Microbiological Assay
☐ Vitamin B_6
　☐ Pyridoxal/Pyridoxal Hydrochloride
　☐ Pyridoxamine/Pyridoxamine Dihydrochloride
　☐ Pyridoxine/Pyridoxine Hydrochloride
　☐ Total Vitamin B_6
　☐ Total Vitamin B_6 by Microbiological Assay
☐ Vitamin B_{12}
　☐ Cyanocobalamin
　☐ Total Vitamin B_{12} 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.

☐ Vitamin A
    ☐ Retinol
    ☐ Retinyl Palmitate
☐ Vitamin D
    ☐ Cholecalciferol (Vitamin D_3)
    ☐ Ergocalciferol (Vitamin D_2)
☐ Phylloquinone (Vitamin K)

☐ Vitamin E
    ☐ α-Tocopherol
    ☐ α-Tocopheryl Acetate
    ☐ Total α-Tocopherol
    ☐ β-Tocopherol
    ☐ γ-Tocopherol
    ☐ γ- + β-Tocopherol
    ☐ 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.

☐ α-Carotene
☐ β-Carotene
    ☐ Total β-Carotene
    ☐ *trans*-β-Carotene
    ☐ 9-*cis*-β-Carotene
☐ Total β-cryptoxanthin

☐ Total Lutein
☐ Lycopene
    ☐ *trans*-Lycopene
    ☐ Total Lycopene
☐ Total Zeaxanthin

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.

☐ Ash
☐ Calories
☐ Carbohydrates
☐ Fat
    ☐ Total Fat (sum of fatty acids)
    ☐ Total Fat (extracted)
☐ Moisture
☐ Solids

☐ Dietary Fiber
    ☐ Insoluble
    ☐ Insoluble + High Molecular Weight Soluble
    ☐ Low Molecular Weight Soluble
    ☐ High Molecular Weight Soluble
    ☐ High Molecular Weight Total
    ☐ Soluble
    ☐ 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.

☐ Butryic Acid (C4:0)
☐ Caproic Acid (C6:0)
☐ Caprylic Acid (C8:0)
☐ Capric Acid (C10:0)
☐ Undecanoic Acid (C11:0)
☐ Lauric Acid (C12:0)
☐ Tridecanoic Acid (C13:0)
☐ Myristic Acid (C14:0)
☐ Myristoleic Acid (C14:1 n-5)
☐ Pentadecanoic Acid (C15:0)
☐ Palmitic Acid (C16:0)
☐ Palmitoleic Acid (C16:1 n-7)
☐ *trans*-Palmitelaidic Acid (C16:1-9t)
☐ Hexadecadienoic Acid (C16:2)
☐ Margaric Acid (C17:0)
☐ Margaroleic Acid (C17:1 n-6)
☐ Stearic Acid (C18:0)
☐ Vaccenic Acid (C18:1 n-7)
☐ Oleic Acid (C18:1 n-9)
☐ *trans*-Vaccenic Acid (C18:1-11t)
☐ Elaidic Acid (C18:1-9t)
☐ Linoelaidic Acid (C18:2)
☐ 9,12-Octadecadienoic Acid (C18:2-9t)
☐ 9,12-Octadecadienoic Acid (C18:2-12t)
☐ Linoleic Acid (C18:2 n-6)
☐ α-Linolenic Acid (C18:3 n-3)
☐ γ-Linolenic Acid (C18:3 n-6)
☐ Stearidonic Acid (C18:4)
☐ Arachidic Acid (C20:0)

☐ Gadoleic Acid (C20:1 n-7)
☐ Gondoic Acid (C20:1 n-9)
☐ Eicosadienoic Acid (C20:2 n-6)
☐ Dihomo-γ-linolenic Acid (C20:3 n-6)
☐ 11,14,17-Eicosatrienoic Acid (C20:3 n-3)
☐ EPA (C20:4 n-3)
☐ Arachidonic Acid (C20:4 n-6)
☐ Heneicosanoic Acid (C21:0)
☐ Behenic Acid (C22:0)
☐ Erucic Acid (C22:1 n-9)
☐ 13,16-Docosadienoic Acid (C22:2)
☐ DPA (C22:5 n-3)
☐ DHA (C22:6 n-3)
☐ Lignoceric Acid (C24:0)
☐ Nervonic Acid (C24:1 n-9)
☐ *cis*-Monounsaturated Fat
☐ *cis*-Polyunsaturated Fat
☐ Saturated Fat
☐ Total *cis*-C18:1
☐ Total *cis*-C18:2
☐ Total *cis*-C20:1
☐ Total *cis*-C22:4
☐ Total *cis*-C22:5
☐ Total *trans* Fat
☐ Total *trans*-C18:1
☐ Total *trans*-C18:2
☐ Total *trans*-C18:2 Conjugated
☐ Total ω-3 Fatty Acids
☐ 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.

☐ Alanine   ☐ Hydroxyproline   ☐ Proline
☐ Arginine   ☐ Isoleucine   ☐ Serine
☐ Aspartic Acid   ☐ L-theanine   ☐ Taurine
☐ Cystine   ☐ Leucine   ☐ Threonine
☐ Glutamic Acid   ☐ Lysine   ☐ Tryptophan
☐ Glycine   ☐ Methionine   ☐ Tyrosine
☐ Histidine   ☐ Phenylalanine   ☐ 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.

☐ Fructose   ☐ Lactose   ☐ Sucrose
☐ Glucose   ☐ Maltose   ☐ 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.

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

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.