

105.1 - Clinical Laboratory Materials (gas, liquid, and solid forms)

The following SRMs are intended for calibrating apparatus and validating analytical methods used in clinical and pathology laboratories.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

| SRM | Description | Unit Size | Purity/Constituent (mass fraction in % unless otherwise noted) |
|-----------------------|--|----------------------|---|
| 911c | Cholesterol | 2 g | 99.2 |
| 912b | Urea | 25 g | 99.95 |
| 913b | Uric Acid | 10 g | 99.8 |
| 914b | Creatinine | 10 g | 99.9 |
| 915c | Calcium Carbonate | 20 g | ^w CaCO ₃ 99.947 ^w Ca 40.023 ^w CO ₃ 59.944 |
| 916b | Bilirubin | 100 mg | 94.7 |
| 917d | D-Glucose (Dextrose) | 50 g | 99.6 |
| 918c | Potassium Chloride General and Ion Activity Standard | 30 g | ^w KCl 99.945 ^w K 52.421 ^w Cl 47.5317 |
| 919b | Sodium Chloride | 30 g | ^w NaCl 99.835 ^w Cl ⁻ 60.564 ^w Na ⁺ 39.2747 |
| 920 | D-Mannitol | 50 g | 99.8 |
| 921a | Cortisol (Hydrocortisone) | 1 g | 99.3 |
| 924a | Lithium Carbonate | 30 g | 99.867* |
| 927f | Bovine Serum Albumin (7 % Solution) (Total Protein Standard) | 10 ampoules x 2.2 mL | BSA Conc. 83.2 g/L |
| 928 | Lead Nitrate | 30 g | 100.00 |
| 929a | Magnesium Gluconate | 5 g | Mg Conc. 5.362 |
| 937 | Iron Metal | 50 g | 99.90 |
| 998 | Angiotensin I (Human) | 0.5 mg | 94.1 |
| 1400 | Bone Ash | 50 g | 8 elements |
| 1486 | Bone Meal | 50 g | 8 elements <i>1 element</i> |
| 1595a | Tripalmitin | 2 g | 99.90 |
| 1598a | Inorganic Constituents in Animal Serum | 2 vials x 5 mL | 12 elements <i>5 elements</i> |
| 2365 | BK Virus DNA Quantitative Standard | 1 vial x 110 µL | 1 Level: BK virus (copies per microliter) |
| 2366a | Cytomegalovirus DNA (Towne _{A147} BAC) for DNA Measurements | 1 vial x 150 µL | 1 Level: cytomegalovirus (copies per micro liter) |
| 2389a | Amino Acids in 0.1 mol/L Hydrochloric Acid | 5 ampoules x 1.2 mL | 16 Amino Acids |
| 2921 | Human Cardiac Troponin Complex | 5 vials x 115 µL | Cardiac Troponin <i>cTnI, cTnT, cTnC</i> |
| 2924 | C-Reactive Protein Solution | 3 vials x 1 mL | CRP Conc. 20.6 µmol/L |
| 2968 | 3-Epi-25-Hydroxyvitamin D3 Calibration Solution | 5 ampoules x 1.2 mL | 3-epi-25-hydroxyvitamin D3 |
| 2972b | 25-Hydroxyvitamin D Calibration Solutions | 15 ampoules x 1.2 mL | Vitamin D Metabolites 25-hydroxyvitamin D2, 25-hydroxyvitamin D3 |
| 3030 | Monomethylarsonic Acid Standard Solution | 2 x 5 mL | 17.46 mg/kg |
| 3031 | Dimethylarsinic Acid Standard Solution | 2 x 5 mL | 20.47 mg/kg |
| 3033 | Arsenobetaine Standard Solution | 2 x 5 mL | 19.06 mg/kg |
| 3034 | Arsenocholine Standard Solution | 2 x 5 mL | 19.77 mg/kg |
| 3036 | Arsenic Acid (AsV) Standard Solution | 2 x 10 mL | 0.0971 |
| 3037 | Arsenous Acid (AsIII) Standard Solution | 2 x 10 mL | 0.10442 |
| 3655 | Glycans in Solution (Frozen) | 13 vials | 13 certified mass fraction values for glycans |
| 8321 | Peptide Mixture for Proteomics | 3 vials x 50 µL | <i>440 Synthetic Peptides</i> |
| 8323 | Yeast Protein Extract | 3 vials x 0.2 mL | <i>0.188 mg/mL</i> |
| 8461 | Human Liver for Proteomics | 0.5 g | <i>1619 Identified Proteins</i> |
| 8642a | FDA Saxitoxin Dihydrochloride Solution | 5 ampoules x 1.2 mL | <i>0.0103</i> |
| 8671 | NISTmAb, Humanized IgG1κ Monoclonal Antibody | 1 vial x 800 µL | <i>Concentration, size and charge heterogeneity, identity confirmation</i> |

- Certified values are normal font.

- Non-certified and reference values are italicized.

- Information values and values of potential interest are within parentheses.

* Conforms to National Committee for Clinical Laboratory Standards (NCCLS) specification ACC-1.