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The identification of any commercial product or trade name does not imply endorsement or recommendation by the National Institute of Standards and Technology.

New NIST SRMs

NIST SRM 2669 Arsenic Species in Frozen Human Urine

Arsenic, whose toxicity is dependent on the speciation of the element, is an important component of the National Health and Nutrition Examination Survey (NHANES) conducted by the Centers for Disease Control and Prevention (CDC). NIST, in collaboration with CDC, has developed SRM 2669 Arsenic Species in Frozen Human Urine to address the needs of quality assurance in NHANES measurements. SRM 2669 contains two levels of seven arsenic species: arsenic acid, arsenous acid, monomethylarsonic acid, dimethylarsinic acid, trimethylarsine oxide, arsenobetaine, and arsenocholine. The SRM is intended primarily for validating analytical methods and measurements for the determination of arsenic species in human urine. This is the first SRM with certified values for arsenic species.

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NIST SRM 2701 Hexavalent Chromium in Contaminated Soil (High Level)



A contaminated soil SRM, certified for both hexavalent chromium and total chromium, has been developed in a joint program between NIST and the New Jersey Department of Environmental Protection (NJDEP). Over the last several decades, considerable environmental contamination has resulted from the disposal of Chromite Ore Processing Residue (COPR). This waste material consists of a mixture of chromite (CrIII) and chromate (CrVI) species, otherwise known as hexavalent chromium, which is now widely recognized as a human carcinogen. Hexavalent chromium is relatively mobile and therefore the potential environmental and human impact is of great concern. This new SRM will provide support for analytical measurements associated with environmental remediation activities. SRM 2701 was prepared using material collected from a waste site in Hudson County, New Jersey. SRM 2701 contains a relatively high level of hexavalent chromium (approximately 500 mg/kg). A companion material (SRM 2700) having a lower concentration of hexavalent chromium is also being developed.

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NIST SRM 3274 Botanical Oils Containing Omega-3 and Omega-6 Fatty Acids

Botanical oils that are used as dietary supplements because of their omega-3 and omega-6 fatty acid content have been added to the series of materials being produced by the National Institute of Standards and Technology (NIST) and the National Institutes of Health's Office of Dietary Supplements (NIH/ODS). A unit of this material consists of four ampoules, one each of four seed oils: 3274-1 Borage, 3274-2 Evening Primrose, 3274-3 Flax, and 3274-4 Perilla. Each ampoule contains approximately 1.2 mL of oil under argon. Values are assigned for each material for 16 to 18 individual fatty acids including the omega-3 and omega-6 fatty acids. Materials in this suite of SRMs are intended for use as primary control materials when assigning values to in-house (secondary) control materials and for validation of analytical methods.

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NIST SRM 3280 Multivitamin/Multielement Tablets

The National Institutes of Health (NIH) Office of Dietary Supplements (ODS) is collaborating with the U.S. Department of Agriculture (USDA) to establish a Dietary Supplement Ingredient Database (DSID). The DSID project will report the results of a systematic survey of supplement composition, including chemical analyses of ingredients and indicators of data quality. The initial focus of the DSID project is on vitamin and mineral supplements. To support the DSID project, the National Institute of Standards and Technology (NIST) and NIH-ODS collaborated to develop Standard Reference Material (SRM) 3280 Multivitamin/Multielement Tablets for use in validating analytical methods for use in multivitamin/multimineral supplements. Dietary supplement manufacturers will also be able to use this SRM as an analytical control material for quality assurance of measurements they make to address labeling requirements. One unit of SRM 3280 consists of five bottles, each containing 30 tablets.



Because of analyte instability that may have arisen if the tablets had been ground to a fine powder, the material is provided as whole tablets. Because tablet-to-tablet inhomogeneity is high, 15 or 30 tablets must be ground and mixed prior to removing a portion for analysis. Values are assigned for 24 elements and 15 vitamins and carotenoids.

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**NIST Speakers at PITTCON 2009
CHICAGO, IL MARCH 8-13, 2009
McCormick Place South**

DATE	NIST STAFF	EVENT TITLE	TIME	LOCATION
3/11/09 - 3/12/09	Thomas Vetter	Hands-On Workshop on Evaluating Uncertainties for Chemical Analysis	8:30AM- 5:00PM	
3/8/2009	Karen W. Phinney, Mary Bedner, Lacey C. Brent, Lane C. Sander, Katherine E. Sharpless, Stephen A. Wise	Development of LC-MS and LC-MS/MS Methods for Vitamin D Metabolites in Serum	2:00PM	S502b
3/9/2009	Catherine A. Rimmer, Karen W. Phinney, Bryant C. Nelson, Jeanice B. Thomas, Lane C. Sander, Michele M. Schantz, Katherine E. Sharpless, Stephen A. Wise	Determination of Vitamins in Standard Reference Materials by Liquid Chromatography with Isotope Dilution Mass Spectrometry	1:30PM	S505a
3/10/2009	Paul C. DeRose	Expanding/Fluorescence Instrument Qualification to New Formats and Extended Wavelength Regions:CCDs, UV to NIR, and Microarrays	8:30AM	S502b
3/10/2008	Michael R. Winchester, Therese A. Butler, Michael S. Rearick	Achieving Small Uncertainties in Ion Chromatography Using a High-Performance Methodology Poster Session	AM Poster	Center of Exposition Floor Aisles 2400-3700
3/10/2009	Timothy M. Brewer, Christopher Szakal, Robert Fletcher, Greg Gillen	Analysis of Explosives Using Atmospheric Sampling Glow Discharge Ionization Mass Spectrometry	3:05PM	S504d

DATE	NIST STAFF	EVENT TITLE	TIME	LOCATION
3/11/2009	Melissa S. Meaney, Lane C. Sander, Katherine E. Sharpless	Characterization of Organic Acid and Anthocyanidin Profiles in Vaccinium Berry Dietary Supplement Standard Reference Materials Poster Session	Afternoon Poster	Center of Exposition Floor Aisles 2400-3700
3/11/2009	William A. MacCrehan and J. Greg Gillen	Workshop Measurements and Standards for Trace Explosives	1:30PM	S501a
3/11/2009	Greg Gillen	Measurements and Standards for Trace Explosives Detection	2:05PM	S501a
3/11/2009	William MacCrehan	Developing NIST Standard Reference Materials for Trace Explosives	3:50PM	S501a
3/11/2009	Thomas W. Vetter	Improvements in the Ion-Exchange Gravimetric Method for Determining Sodium in Various Standard Reference Materials-Poster Session		Center of Exposition Floor Aisles 2400-3700
3/11/2009	Samuel Forry, Lorrie E Locascio, Peter C Thomas	On Device Modulation of CO ₂ and Pervaporation for Microfluidic Cell Cultures	8:30AM	S504bc
3/11/2009	Elizabeth Mansfield, Noah Bronstein, Stephanie Hooker	Integrated Heaters on Quartz Crystal Microbalances for In Situ Evaluation of Carbon Nanotubes	9:30AM	S503b
3/12/2009	Gregory C Turk, Karen Murphy, Katherine Sharpless, Elizabeth Mackey	Characterization of Botanical Reference Materials	9:10AM	S401a
3/12/2009	Elisabeth Mansfield	Evaluation of Nanomaterial Concentration and Distribution within Tissue Engineering Hydrogels for NanoEHS Applications	10:05AM	N426b
3/12/2009	Stephan Stranick	Superresolving Linear and Nonlinear Microscopy for Materials Analysis	10:55AM	S401d

Renewals

SRM 968d Fat-Soluble Vitamins, Carotenoids and Cholesterol in Human Serum

SRM 971 Hormones in Frozen Human Serum

SRM 1668b Propane in Air Lot #85-K-XX

SRM 1763a Low Alloy Steel

SRM 1995 Standard Sapphire Single Crystal Wafer for Crystalline Orientation

SRM 2092 Low-Energy Charpy

SRM 2096 High-Energy Charpy

SRM 2098 Super-High Charpy

SRM 2257 PBDE Congeners in 2,2,4-Trimethylpentane

SRM 2258 BDE 209 in 2,2,4-Trimethylpentane

SRM 2278 Deuterated Organic Acids in Methanol: Methylene Chloride

SRM 2881 Polystyrene Absolute Molecular Mass Distribution Standard

SRM 3150 Silicon Standard Solution

SRM 3168 Zinc Standard Solution

SRM 4340b Plutonium-241 Solution

SRM 4966a Radium-226

Revisions

Certificate Revisions—Are You Using These Materials?

This is a list of our most recent certificate revisions. Users of NIST SRMs should ensure that they have the most recent certificates. NIST updates certificates for a variety of reasons, such as to extend the expiration date or to include additional information gained from stability testing. If you do not have the most recent certificate for your material, you can print or view a copy from the website at:

http://www.nist.gov/srm or contact SRM at:

Phone: 301-975-2200 **Fax:** 301-926-4751 **Email:** srminfo@nist.gov

SRM 1507b THC-COOH in Freeze-Dried Urine

New Expiration Date : 31 December 2009

SRM 1683b Nitric Oxide in Nitrogen Lot# 45-U-XX

New Expiration Date : 01 June 2016

SRM 1693a Sulfur Dioxide in Nitrogen Lot #96-K-XX

New Expiration Date: 31 December 2009

SRM 1822a Refractive Index Standard

Editorial Changes

SRM 1830 Soda Lime Float Glass

Editorial Changes

SRM 1831 Soda Lime Sheet Glass

Editorial Changes

SRM 1899 Specific Surface Area Standard

Editorial Changes

SRM 1944 New York/New Jersey Waterway Sediment

New Expiration Date: 31 March 2019

SRM 2392 Mitochondrial DNA Sequencing

New Expiration Date: 31 July 2013

SRM 2451 Fine Carbon (Activated) –From Cyanide Ore Leaching

Information value added for cyanide

SRM 2490 Non-Newtonian Polymer Solution for Rheological Measurements

New Expiration Date: 30 September 2010

SRM 2614a Carbon Monoxide in Air Lot# 21-G-XX

New Expiration Date: 08 June 2016

Revisions (continued)

SRM 2635a Carbon Monoxide in Nitrogen Lot# 58-D-XX

New Expiration Date: 12 September 2014; Editorial Changes

SRM 2750 Methane in Air Lot# 211-C-XX

New Expiration Date: 01 June 2016

SRM 2806a Medium Test Dust (MTD) in Hydraulic Fluid

New Expiration Date: 31 December 2009

SRM 3193 Aqueous Electrolytic Conductivity

New Expiration Date: 01 May 2011

ORDER NIST SRMS ONLINE

You can now order NIST SRMs through our new online ordering system, which is constantly being updated. **PLEASE NOTE:** Purchase orders and credit cards may be used when ordering an SRM online. This system is efficient, user-friendly, and secure. Our improved search picks up keywords on the detail page along with the words in the title of each SRM.

In addition, we are in the midst of a project to add numerous certificate references for each SRM online. Please also note we are adding many historical archive certificates online for your convenience.

<https://srmors.nist.gov>

Please Register Your Certificate Online!

Users of NIST SRMs should ensure that they have the most recent certificates.

<http://www.nist.gov/srd/srmregform.htm>

SRM 2009 CATALOG/CD/Price List

If you would like a copy of our new January 2009 SRM Marketing Catalog, Price List , or a CD, please call, fax, or email us at:

Ph: 301-975-2200

Fax: 301-948-3730

Email: srminfo@nist.gov



NIST SRM 2009 Exhibit Schedule



**Pittsburgh Convention
PITTCON**
March 8 -13, 2009
McCormick Convention Center
Chicago, IL

**American Chemistry Society
ACS**
March 22-26, 2009
Salt Palace Convention Center
Salt Lake City, UT

**Materials Research Society
Spring Meeting MRS**
April 13-17, 2009
Moscone West
San Francisco, CA

NOBCChE
April 13-18, 2009
Renaissance Grand Hotel
St. Louis, MO

IFT – FOOD EXPO
June 6-10, 2009
Anaheim Convention Center
Anaheim, CA

AACC Clinical Lab Expo
July 19-23, 2009
McCormick Convention
Center
Chicago, IL

NCSL Symposium
July 26-30, 2009
San Antonio Convention
Center
San Antonio, TX

**American Chemistry
Society ACS**
August 16-20, 2009
Washington DC Convention
Center
Washington, DC

**Association of Official
Chemists AOAC**
September 13-16, 2009
Philadelphia Marriott
Downtown
Philadelphia, PA

MS&T Show
October 25-29, 2009
David L. Lawrence
Convention Center
Pittsburgh, PA

Chem Show
November 17-19, 2009
Jacob Javits Convention Ctr
New York City, NY

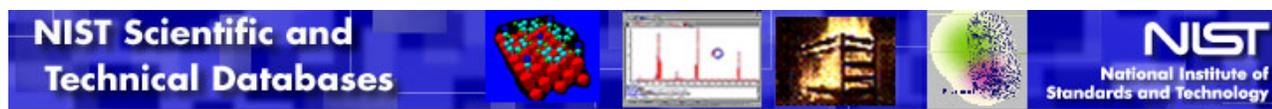
**Materials Research Society
Fall Meeting MRS**
November 30 – December 4, 2009
Hynes Convention Center
Boston, MA



Other NIST Measurement Services Websites of Interest



Standard Reference Materials – Historical Archived Certificates/Reports of Investigation
http://ts.nist.gov/MeasurementServices/ReferenceMaterials/archived_certificates.cfm



NIST Scientific and Technical Databases
<http://www.nist.gov/srd>

NIST Data Gateway
<http://www.srdata.nist.gov/gateway>



Calibrations Services
<http://www.nist.gov/calibrations>