SPEX CertiPrep

INORGANIC AND ORGANIC
CERTIFIED REFERENCE MATERIALS

Since 1954, SPEX CertiPrep is the industry leader in the CRM marketplace meeting the needs of laboratories worldwide with innovation and research. Accredited by A2LA to ISO/IEC 17025:2017 & ISO 17034:2016. Certified by DQS to ISO 9001:2015.

Back to the Bench

As businesses begin to return to operation, laboratories which may have been forced to shut down during the pandemic, are now being asked to reopen with a new level of concern for not only chemical contamination but viral contamination. During this time of heightened anxiety, it is good to know most common laboratory procedures used to keep scientists safe from chemical exposures also work well for limiting biological exposures. It is important to keep in mind all of the advice given by governmental agencies for our protection, but also develop a plan and set of resources to return to business in the office and in the laboratory.

SPEX CertiPrep offers common supplies to help restore your workspace to functioning order in this new reality of COVID-19.

FOR ICP, ICP-MS INSTRUMENTATION

Blanks are for establishing the baseline background noise and can be used in qualification of LOD. CCB, Continuing Calibration Blank, is for periodically checking/monitoring contamination levels during the analysis after running the rinse solution which is for cleaning out the instrument and sample uptake system after each measurement.

Part #	Instrumentation	Use
CLBLK-H2O	ICP-MS	Blank
CLBLK-HCL	ICP-MS	Blank
CLBLK-HNO3	ICP-MS	Blank
PLBLK-H2O	ICP	Blank
PLBLK-HCL	ICP	Blank
PLBLK-HNO3	ICP	Blank

Calibration/Verification: Calibration and verification standards allow you to calibrate or verify the calibration of an instrument usually to EPA method standards. The CCV, Continuing Calibration Verification, is often required to be independent of the calibration standard. For example, an alternate lot or second source standard.

Part #	Instrumentation	Use
CL-CAL-1	ICP-MS	Calibration/Verification
CL-CAL-1A	ICP-MS	Calibration/Verification
CL-CAL-2	ICP-MS	Calibration/Verification
CL-CAL-2A	ICP-MS	Calibration/Verification
CL-CAL-3	ICP-MS	Calibration/Verification
CL-ICV-1	ICP-MS	Calibration/Verification
CL-ICV-2	ICP-MS	Calibration/Verification
CL-ICV-3	ICP-MS	Calibration/Verification
ICAL-1	ICP & ICP-MS	Calibration/Verification
ICAL-2	ICP & ICP-MS	Calibration/Verification
ICAL-3	ICP & ICP-MS	Calibration/Verification
ICAL-4A	ICP & ICP-MS	Calibration/Verification

Calibration/Verification (cont'd)

MIX-STD1-100	ICP	Calibration/Verification
MIXSTD1A-100	ICP	Calibration/Verification
MIXSTD1C-100	ICP	Calibration/Verification
MIXSTD2-100	ICP	Calibration/Verification
MIXSTD2A-100	ICP	Calibration/Verification
MIXSTD3-100	ICP	Calibration/Verification
MIXSTD3A-100	ICP	Calibration/Verification
MIXSTD4-100	ICP	Calibration/Verification
MIXSTD4A-100	ICP	Calibration/Verification
MXSTD4A-100N	ICP	Calibration/Verification
MIXSTD5-100	ICP	Calibration/Verification
MIXSTD5A-100	ICP	Calibration/Verification

Check Standard: Check standards are usually an instrument-targeted standard which monitor drift and changes during operation and are run at intervals to monitor changes.

Part #	Instrumentation	Use
CL-ICS-1	ICP-MS	Check Standard
CL-ICS-3	ICP-MS	Check Standard
CL-ICS-4	ICP-MS	Check Standard
CL-ICS-5	ICP-MS	Check Standard

Interference: Interference standards are run to check for the effect if interference elements on the system and target analytes. They could also be used to establish (rather than just check) correction factors, sometimes called ICE for Interference Correction Equations or IEC for Inter-Element Correction.

Part #	Instrumentation	Use
CL-INT-A1	ICP-MS	Interference
CL-INT-A2	ICP-MS	Interference
CL-INT-A3	ICP-MS	Interference
CL-INT-B1	ICP-MS	Interference
CL-INT-B2	ICP-MS	Interference
CL-INT-B3	ICP-MS	Interference
CL-INT-B3N	ICP-MS	Interference

Internal Standard: An Internal Standard is a standard which is added to all samples, blanks and external standards to correct for instrument variation between runs or over time. These standards allow one to correct for difference between runs due to instrument variances.

Part #	Instrumentation	Use
CL-ISM1-100	ICP-MS	Internal Standard
CL-ISM2-100	ICP-MS	Internal Standard
CLISS-1	ICP-MS	Internal Standard
CLISS-2	ICP-MS	Internal Standard

Memory Test: To identify or confirm the maximum concentration of an analyte that does not cause a memory effect greater than the contract required detection (CRDL). The test solutions are not analyzed directly; equal volumes of the two are mixed and then introduced into the instrument for a normal sample exposure time. A blank is then run to confirm that all analyte memory effects are below the CRDL.

Part #	Instrumentation	Use
CL-MEM-1	ICP-MS	Memory Test
CL-MEM-2	ICP-MS	Memory Test

Tune Solutions: Solutions containing elements or analytes designated by an instrument manufacturer for a tuning procedure used to keep the instrument in overall calibration and run condition or peak performance condition.

Part #	Instrumentation	Use
CL-TUNE-1	ICP-MS	Tune Solution
CL-TUNE-2	ICP-MS	Tune Solution
CL-TUNE-3	ICP-MS	Tune Solution
CL-TUNE-4	ICP-MS	Tune Solution

FOR GC/MS, HPLC, LC/MS INSTRUMENTATION

Calibration/Verification: Calibration and verification standards allow you to calibrate or verify the calibration of an instrument usually to EPA method standards. The CCV, Continuing Calibration Verification, is often required to be independent of the calibration standard. For example, an alternate lot or second source standard.

Part #	Instrumentation	Use	Method
5242-VCX-200	GC/MS	Calibration/Verification	EPA 524.2
5312-A	GC/MS	Calibration/Verification	EPA 531.2
60-BIG-MIX	GC/MS	Calibration/Verification	EPA 524.2, EPA 624, EPA 8260B
76-BIG-MIX	GC/MS	Calibration/Verification	EPA 625, EPA 8270C, EPA CLP Semi-VOA
8015-OX	GC/MS	Calibration/Verification	EPA 8015
8082-C	GC/MS	Calibration/Verification	EPA 8082
8082-IC	GC/MS	Calibration/Verification	EPA 8082
8260-A1	GC/MS	Calibration/Verification	EPA 8240B, 8260B
8260-BIG-MIX	GC/MS	Calibration/Verification	
BIG-BN-2	GC/MS	Calibration/Verification	EPA 625, EPA 8270C, EPA 8310
CLPP-LLA	GC/MS	Calibration/Verification	EPA 8310
ECS-K-050	GC/MS	Calibration/Verification	
ECS-KN-050	GC/MS	Calibration/Verification	
NJDEP-EPH-ALCS	GC/MS	Calibration/Verification	NJDEP OQA-QAM-025-02/8
NJDEP-EPH-ARCS	GC/MS	Calibration/Verification	NJDEP OQA-QAM-025-02/8

Internal Standard: An Internal Standard is a standard which is added to all samples, blanks and external standards to correct for instrument variation between runs or over time. These standards allow one to correct for difference between runs due to instrument variances.

Part #	Instrumentation	Use	Method
5022-I	GC/MS	Internal Standard	EPA 502.2, EPA 8021/8021A/8021B
507-I	GC/MS	Internal Standard	EPA 507
508-I	GC/MS	Internal Standard	EPA 508
5242-I	GC/MS	Internal Standard	EPA 524.2
5243-I	GC/MS	Internal Standard	EPA 542.3
5252-I	GC/MS	Internal Standard	EPA 525.2
531-I	GC/MS	Internal Standard	EPA 531.1
5481-IS	GC/MS	Internal Standard	EPA 548.1
548-IS	GC/MS	Internal Standard	EPA 548
550-I	GC/MS	Internal Standard	EPA 550/550.1
5511-I	GC/MS	Internal Standard	EPA 551.1
602-I	GC/MS	Internal Standard	EPA 602
624-I	GC/MS	Internal Standard	EPA 624
8015B-I	GC/MS	Internal Standard	EPA 8015B
8260A-I	GC/MS	Internal Standard	EPA 8260B
8260A-S	GC/MS	Internal Standard	EPA 8260B
8260B-I	GC/MS	Internal Standard	EPA 8240B, EPA 8260B
8260-I	GC/MS	Internal Standard	EPA 8260B
CLPS-I	GC/MS	Internal Standard	EPA 625, EPA 8270C, EPA 8310
CLPS-I5	GC/MS	Internal Standard	EPA 8270C, EPA CLP Semi-VOA
CLPS-I90	GC/MS	Internal Standard	EPA 625, EPA 8310
CLPV-I2	GC/MS	Internal Standard	EPA 8260B, EPA CLP VOA
CLPV-LC-A	GC/MS	Internal Standard	EPA 8260B, EPA CLP VOA
CLPV-MH	GC/MS	Internal Standard	EPA 8240B, EPA 8310
CLPV-SH	GC/MS	Internal Standard	EPA 8310

Tune Solutions: Solutions designated by an instrument manufacturer for a tuning procedure used to keep the instrument in overall calibration and run conditions or peak performance condition.

Part #	Instrumentation	Use	Method
CLPS-T	GC/MS	Tune Solution	EPA 548.1, EPA 625, EPA 8270C, EPA 8310
CLPS-T4	GC/MS	Tune Solution	EPA 625, EPA 8270C, EPA 8310
CLPV-T	GC/MS	Tune Solution	EPA 8240B, EPA 8310
CLPV-TH	GC/MS	Tune Solution	EPA 524.2, EPA 8240B, EPA 8310
ECS-K-TUNE	GC/MS	Tune Solution	EPA 8270

Multipurpose Check Standards: General use standards that can be used as several different types of standards from a check standard, internal standard to a quality control standard.

Part #	Instrumentation	Use
S-2725	HPLC/LC/MS	Multipurpose Check Standard
S-2728	HPLC/LC/MS	Multipurpose Check Standard
S-2730	HPLC/LC/MS	Multipurpose Check Standard
S-3249	HPLC/LC/MS	Multipurpose Check Standard
S-705	HPLC/LC/MS	Multipurpose Check Standard

FOR PH METERS

pH Buffer Solutions: For calibration and quality control checks.

Part #	Instrumentation	Use
PH-BUFF2-500	pH	Buffer/Check Solution
PH-BUFF3-500	pH	Buffer/Check Solution
PH-BUFF4-500	pH	Buffer/Check Solution
PH-BUFF5-500	pH	Buffer/Check Solution
PH-BUFF6-500	pH	Buffer/Check Solution
PH-BUFF7-500	pH	Buffer/Check Solution
PH-BUFF8-500	pH	Buffer/Check Solution
PH-BUFF9-500	pH	Buffer/Check Solution
PH-BUFF10-500	pH	Buffer/Check Solution
PH-BUFF11-500	pH	Buffer/Check Solution
PH-BUFF12-500	pH	Buffer/Check Solution

FOR CONDUCTIVITY INSTRUMENTS

Conductivity Standards: For calibration and quality control checks.

Part #	Use	Description
4065OT	Conductivity and TDS	Batch-Tested: 10 µS, 500 mL
4066OT	Conductivity and TDS	Batch-Tested: 100 µS, 500 mL
4067OT	Conductivity and TDS	Batch-Tested: 1000 µS, 500 mL
4068OT	Conductivity and TDS	Batch-Tested: 10,000 µS, 500 mL
4069OT	Conductivity and TDS	Batch-Tested: 100,000 µS, 500 mL
4161OT	Conductivity and TDS	Batch-Tested: 150,000 µS, 500 mL
4162OT	Conductivity and TDS	Batch-Tested: 200,000 µS, 500 mL
4172OT	Conductivity and TDS	Assortment: 6 x 100 mL Vials
4173OT	Conductivity and TDS	Batch-Tested: 1413 µS, 500 mL
4174OT	Conductivity and TDS	1413 µS, 6 x 100 mL Vials
4175OT	Conductivity and TDS	10 µS, 6 x 100 mL Vials
4176OT	Conductivity and TDS	100 µS, 6 x 100 mL Vials
4177OT	Conductivity and TDS	1000 µS, 6 x 100 mL Vials
4178OT	Conductivity and TDS	10,000 µS, 6 x 100 mL Vials
4179OT	Conductivity and TDS	100,000 µS, 6 x 100 mL Vials
4270OT	Conductivity and TDS	Batch-Tested: 5 µS, 500 mL
4271OT	Conductivity and TDS	5 µS, 6 x 100 mL Vials
4274OT	Conductivity and TDS	Batch-Tested: 1 µS; 500 mL
4580OT	Conductivity and TDS	150,000 µS, 6 x 100 mL Vials
4581OT	Conductivity and TDS	200,000 µS, 6 x 100 mL Vials

FOR SOLVENTS

Part #	Grade	Volume (mL)	Description
88400-48	Solution	4000	Isopropanol, 70% (v/v) Aqueous Solution
88405-66	ACS	1000	Isopropyl Alcohol (IPA), ACS Grade
88405-69	ACS	4000	Isopropyl Alcohol (IPA), ACS Grade
88400-66	ACS, Absolute	4000	Reagent Alcohol, ACS Reagent Grade, Anhydrous, Absolute
88406-18	HPLC	1000	Acetone, HPLC Grade
88406-19	HPLC	4000	Acetone, HPLC Grade
88406-16	ACS	4000	Acetone, ACS Grade, Amber Glass Bottle
88406-12	ACS	1000	Acetone, ACS Grade, Amber Glass Bottle
88401-41	HPLC	4000	Methanol HPLC, Amber Glass
88405-93	HPLC	1000	Methanol, HPLC Grade
88405-44	HPLC	1000	Acetonitrile, HPLC Grade
88405-45	HPLC	4000	Acetonitrile, HPLC Grade
88405-51	ACS	4000	Ethyl Acetate, ACS Grade

FOR PERSONAL CARE

Part #	Description
4486NN	Infrared Forehead Thermometer
78900-47	80% Alcohol Hand Sanitizer - 1 Gallon
78900-48	80% Alcohol Hand Sanitizer - 8 oz Bottle with Spray Cap
78900-49	80% Alcohol Hand Sanitizer - 8 oz Bottle with Spray Cap (Case of 24)
IWT-IPA70-CW66	LabExact® Cotton Cloth 70% IPA (Isopropyl Alcohol) Wipes
78900-46	Disposable Face Shield with Nylon Strap and Foam Padding

LAB EQUIPMENT AND ACCESSORIES

Short On Staff? We've Got You Covered.

With the workload constantly increasing in laboratories, tools to automate manual processes are often very welcome. With this in mind, SPEX® SamplePrep offers a range of sample preparation equipment designed to increase throughput, ensure reproducibility and minimize cross contamination. Our cryogenic mills, homogenizers, ball mills, grinders, fusion fluxers and pellet presses are backed by exceptional service and applications expertise. For more information please visit ***www.spexsampleprep.com***.

Part #	Description
1200	1200 GenoLyte Mini Homogenizer
2010	2010 Geno/Grinder High Throughput Homogenizer
1600	1600 MiniG Compact Homogenizer
6775	6775 Freezer/Mill - Automated Cryogenic Mill - 0.1-5 g (single chamber)
6875	6875 Freezer/Mill - Automated Cryogenic Mill - 0.1-100 g (single chamber)
6875D	6875D Freezer/Mill - 0.1-100 g per chamber (dual chamber)
8000M	8000M Mixer/Mill - High Energy Ball Mill - 0.5-10 g (single clamp)
8000D	8000D Mixer/Mill - High Energy Ball Mill - 0.5-10 g per vial (dual clamp)
8530	8530 Shatterbox Ring and Puck Mill
3636	3636 X-Press 35 Ton Lab Press
X-300	Katanax X-300 X-Fluxer Electric Fusion Fluxer - fuses up to 15 samples per hour
X-600	Katanax X-600 X-Fluxer Electric Fusion Fluxer - fuses up to 30 samples per hour

Contact Us

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