

TRACEABLE[®] PRODUCTS[®]

DESIGNED FOR YOUR LAB



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 **CONTROL
COMPANY**

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Traceable® Products

ISO/IEC 17025 Calibration laboratory

All Traceable® products are provided with a Traceable® Calibration Certificate from our ISO/IEC 17025 calibration laboratory. Timer, thermometer, hygrometer, barometer, tachometer, gauge pressure, differential pressure, scale, balance, conductivity cell, conductivity solution, conductivity meter, UV light meter, light meter, and caliper certificates are accredited by American Association for Laboratory Accreditation (A2LA).

A2LA is widely recognized internationally through bilateral and multilateral agreements and through its participation in International Laboratory Accreditation (ILAC) and Multilateral Recognition Arrangement (MRA). Through A2LA Accreditation, Traceable® Certificates are internationally recognized by Accreditation Agencies and Services in over 75 countries throughout Europe, Middle East, North America, South America, Asia, and Africa.

Traceable® Certificate indicates product is traceable to standards provided by National Institute of Standards and Technology (NIST), a U.S. Government agency within Commerce Department. The Traceable® Certificate complies with ANSI/NCSL Z540-1.

Certified Reference Materials, ISO Guide 34

ISO Guide 34 provides highest achievable level of quality assurance, documentation, and accuracy for chemical standards. All standards are directly traceable to NIST (National Institute of Standards and Technology) and/or a National Standards Laboratory.

Certified Reference Materials (CRM) are produced in an accredited manufacturing facility, our ISO Guide 34 Accredited Certified Reference Material (CRM) Producer. Additional certifications include ISO 31 (certificate content) and ISO 35 (statistical analysis). ISO Guide 34 Certified Reference Material (CRM) Producer is accredited by American Association for Laboratory Accreditation (A2LA Certificate No. 1750.02).

ISO 9001 Quality Certified

All products are provided from our ISO 9001 Quality Certified Company. This quality certification provides users with assurance that they receive only finest and most reliable products. It is worldwide recognition of superb quality for innovative electronic products. ISO 9001 Certification insures that every product is checked and rechecked to provide for absolutely highest quality. In addition, ISO 9001, in contrast to other ISO 9000 certifications, requires that design phase of every product be included in quality requirements. The 9001 certification provides that quality is designed into every product beginning with first drawing. All products are produced under ISO 9001 and certified by DNV (Det Norske Veritas.)

Trademark reference: Traceable® is a registered trademark of Control3.

Through A2LA Accreditation, Traceable® Certificates are internationally recognized by the following Accreditation Agencies and Services in these countries:



Traceable® Bench Conductivity Meter

Easy-to-use—simply turn on, insert probe and read results

- Fulfill all official lab analysis regulations for CAP, ASTM, NCCLS, CLSI, ACS, CLIA, AOAC, EPA, APHA, AWWA, WEF, USGS, USP, ISO, and Federal/State regulations
- Unit automatically encompasses all ranges and selects the most appropriate for the current reading
- Control allows user to store four calibration points using solution standards
- Supplied: adaptor, probe replatinizing current, probe holder arm, battery, Traceable® Certificate

| Cat. No. | Measurement | Range | | | | | Accuracy |
|----------|-------------------------------------|----------------|---------------|------------|--------------|---------------|----------------|
| 4163 | Micromhos (microsiemens) | 0.01 to 20.00 | 0.1 to 200.0 | 1 to 2000 | 10 to 20000 | 100 to 200000 | ±0.3% +1 digit |
| | Megohms | 0.001 to 2.000 | 0.01 to 20.00 | | | | |
| | Dissolved Solids/ Parts Per Million | 0.1 to 20.00 | 1 to 200 | 10 to 2000 | 100 to 20000 | | |



Accessories

| | |
|------|---|
| 4062 | Replacement Conductivity Probe– Glass, K=1; Probe range: 0.05 to 200,000 micromhos |
| 4061 | Accessory Conductivity Probe– Unbreakable Epoxy, K=1; Probe range: 1.0 to 200,000 micromhos |
| 4071 | Accessory Battery Eliminator, Adaptor 115 VAC/60 Hz |

Traceable® Portable Conductivity Meter

Quick answers, accurate results

- Automatic range changes; automatic and manual temperature compensation
- Four unique calibration points may be entered into memory utilizing solution standards; settings are stored even when unit is off
- Results are displayed into conductivity (microsiemens) and resistivity (megohms), dissolved solids (parts per million), concentration (user-defined units), salinity (oceanographic units) and temperature (F/C)
- Supplied: probe, cable, battery, Traceable® Certificate

| Cat. No. | Measurement | Range | | | | | Accuracy |
|----------|-------------------------------------|----------------|---------------|------------|--------------|---------------|---|
| 4063 | Micromhos (microsiemens) | 0.01 to 20.000 | 0.1 to 200 | 1 to 2000 | 10 to 20000 | 100 to 200000 | ±0.3% +1 digit (0.1 to 1999 Micromhos) |
| | Megohms | 0.001 to 2.000 | 0.01 to 20.00 | | | | |
| | Dissolved Solids/ Parts Per Million | 0.1 to 20.00 | 1 to 200 | 10 to 2000 | 100 to 20000 | | |



Accessories

| | |
|------|---|
| 4062 | Replacement Conductivity Probe– Glass, K=1; Probe range: 0.05 to 200,000 micromhos |
| 4061 | Accessory Conductivity Probe– Unbreakable Epoxy, K=1; Probe range: 1.0 to 200,000 micromhos |

Traceable® Conductivity Meter

For routine analysis, quality control, and research—automatic temperature compensation

- Ideal for verifying purity of water from stills, deionizing, and reverse osmosis equipment
- Supplied: probe, cable, battery, Traceable® Certificate

| Cat. No. | Measurement | Range | Accuracy |
|----------|--------------------------|---------------|------------------|
| 4070 | Micromhos (microsiemens) | 0.1 to 200.0 | ±0.4% full scale |
| | Megohms | 2.00 to 20.00 | |

Accessories

| | |
|------|---|
| 4079 | Replacement Probe– Glass, K=1 |
| 4074 | Accessory Probe– Unbreakable Epoxy, K=1 |
| 4077 | Accessory Glass Probe– K=0.1, Increases sensitivity of low range 10 times |
| 4078 | Accessory Probe Unbreakable Epoxy– K=10, Increases sensitivity of high range 10 times |
| 4056 | Accessory Micro-Sampler and Micro Flow-Through Cell, with volume of 2 ml, K=0.2 |
| 4071 | Accessory Battery Eliminator, Adaptor 115 VAC/60 Hz |



Traceable to NIST for accuracy: To assure accuracy, all Traceable® Conductivity Meters/Conductivity/pH Buffer Standards (CRM) are provided with an individually serial-numbered Traceable® Certificate is provided from our ISO/IEC 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

NEW

Traceable® Expanded Range Conductivity Meter

Accurate answers in five seconds

- Ideal for checking water purity in stills, deionizers, reverse osmosis; testing glassware rinsing, measuring total dissolved solids, and making solutions
- Meter automatically selects proper range and displays the exact answer
- Compatible with all accreditation analysis requirements—perfect for labs wanting to maintain accreditation
- Unit fulfills requirements for CAP, ASTM, NCCLS, CLSI, ACS, CLIA, AOAC, EPA, APHA, AWWA, WEF, USGS, USP, ISO, and Federal/State regulations
- Supplied: probe, batteries, carrying case, computer output, Traceable® Certificate



| Cat. No. | Measurement | Range | Accuracy |
|----------|------------------|---|----------------|
| 4360 | Conductivity | 0.00 to 19.99 microsiemens; 0.0 to 199.9 microsiemens; 0 to 1999 microsiemens; 0 to 19.99 millisiemens; 0 to 199.9 millisiemens | ±1.0% +1 digit |
| | Dissolved Solids | 0.00 to 9.99 ppm; 0.0 to 99.9 ppm; 0 to 999 ppm; 0 to 9.99 ppt; 0 to 99.9 ppt | |

Accessories

| | |
|------|---|
| 4361 | Replacement Conductivity Probe— Glass/Platinum, K=1; probe range: 0 to 200,000 microsiemens |
| 4362 | Conductivity Probe— Unbreakable Epoxy, K=1; probe range: 0 to 200,000 microsiemens. |
| 8045 | Data Acquisition System (for additional information see page 68) |
| 4363 | 9V Adaptor (for international information see page 79) |

Traceable® Dual-Display Conductivity Meter

Two displays simultaneously show conductivity readings and temperature measurements

- Simultaneously displays temperature and conductivity
- Probe: 6 x 1/2" diameter, 40" cable
- Supplied: epoxy probe, Traceable® Certificate, battery, computer output



| Cat. No. | Conductivity Ranges | Accuracy | Temperature Ranges | Temperature Resolution | Temperature Accuracy |
|----------|---|----------------------------------|----------------------------------|------------------------|----------------------|
| 4169 | 0.0 to 199.9 micromhos 0.001 to 1.999 millimhos 0.01 to 19.99 millimhos | ±(2% of full scale plus 1 digit) | 32 to 140 °F (0.0 to 60.0 °C) | 0.1° | ±0.8°C |

Accessories

| | |
|------|--|
| 4136 | Data Acquisition System (for additional information, see page 68) |
| 4325 | Data Logger (for additional information, see page 68) |
| 7085 | Universal Wireless Radio-Signal Transceivers (for additional information, see page 68) |
| 4138 | Easy-Use Adaptor 115 VAC (for international adaptor see page 79) |

Traceable® Pure H₂O Tester

Easy-read large digit display

- Meets all lab certification requirements
- Tests water from stills, demineralizers, deionizers, reverse osmosis
- Instant response
- Supplied: epoxy probe, 40" cable, carrying case, battery, Traceable® Certificate



| Cat. No. | Range | Accuracy |
|----------|------------------------------|---------------------|
| 4168 | 0.1 to 20,000 (microsiemens) | ±0.4% of full scale |

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Traceable® Conductivity/TDS/Salinity Pens

Easiest unit ever designed for routine analysis and quality control

- Three units provide for conductivity, conductivity/total dissolved solids, and salinity
- Simply turn on, insert, and simultaneously read results and temperature-eliminates operator technique errors
- Constructed for severe lab or harsh plant environment use
- Arrow key allows fast setting to calibration standards that are maintained even when unit is off
- Pens fulfill requirements for CAP, ASTM, NCCLS, CLSI, ACS, CLIA, AOAC, EPA, APHA, AWWA, WEF, USGS, USP, ISO, and Federal/State regulations
- Supplied: Traceable® Certificate, battery



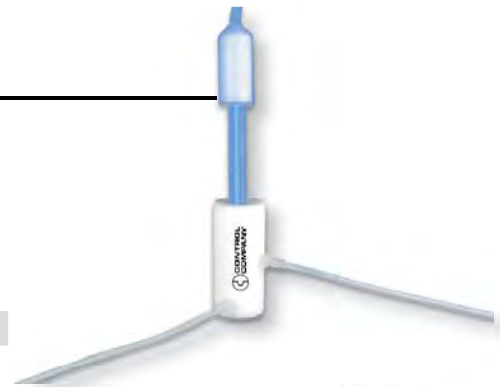
| Cat. No. | 4365 | 4366 | 4367 |
|--------------------------------|--|--|--|
| Conductivity Range | 0 to 1999 microsiemens; 0 to 19.99 millisiemens | 0 to 1999 microsiemens; 0 to 19.99 millisiemens | — |
| Dissolved Solid Range | — | 0 to 1999 parts per million; 0 to 19.99 parts per thousand | — |
| Salinity Range (NaCL) | — | — | 0.00 to 10.00 ppt; 10.1 to 70.0 ppt |
| Resolution | 1 microsiemen | 1 microsiemen/ 1 part per million | 0.01 ppt |
| Accuracy | ±1% full scale + 1 digit | ±1% full scale + 1 digit | ±2% full scale + 1 digit |
| Temperature Range | 0.0 to 50.0°C/ 32.0 to 122.0°F | 0.0 to 50.0°C/ 32.0 to 122.0°F | 0.0 to 50.0°C/ 32.0 to 122.0°F |
| Temperature Resolution | 0.1° | 0.1° | 0.1° |
| Temperature Accuracy | ±0.5° | ±0.5° | ±0.5° |
| Settable Temp. Coefficient | 0.0 to 4.0% per °C | 0.0 to 4.0% per °C | — |
| Automatic Temp. Compensation | 20 and 25° | 20° and 25° | 25° |
| Total Dissolved Solids Factor | — | 0.4 to 1.00 | — |
| Use with Calibration Standards | 400 microsiemens to 19.99 millisiemens | 400 microsiemens to 19.99 millisiemens; 400 ppm to 19.99 ppt | 0.20 to 7.00% |

pH/Conductivity Universal Flow-Thru Adaptor

Allows constant monitoring of flowing fluids with a standard dip probe

- Product can be used continuously at temperatures from -100 to 500F and is designed to provide a secure, leakproof seal
- Connectors accept tubing with 1/16, 3/32, 1/32 and 1/8-inch diameter

| Cat. No. | Flow rate | Size |
|----------|---------------------------|---|
| 4167 | 0.001 to 50 ml per minute | Accepts probe: 0.5-inch (12 mm); Accepts tubing: 0.0625", 0.0937", 0.0313" and 0.1875" I.D. |



Electrode Holder

Holds electrodes safely and securely in any position

- Fingertip control raises, lowers, and pivots 360 degrees allowing placement of the electrode holder wherever desired
- Holds electrodes safely and securely in any position
- Weighted base stabilizes holder and electrode arm articulates at three points so electrodes always remain vertical

| Cat. No. | Supplied |
|----------|---|
| 3090 | 21-inch metal arm, 8-inch diameter metal base, probe holder |

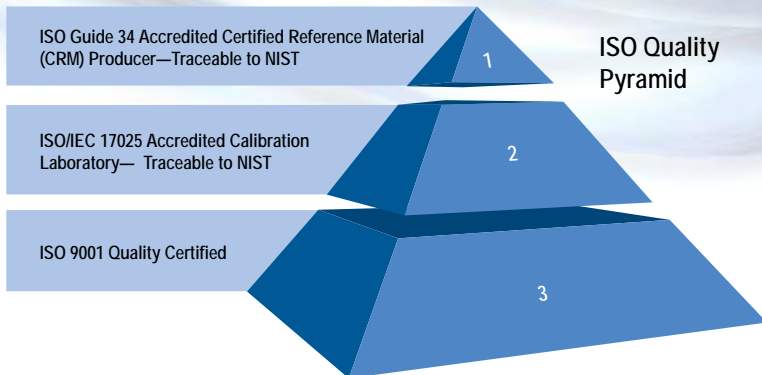


Traceable to NIST for accuracy: To assure accuracy, all Traceable® Conductivity Meters/Conductivity/pH Buffer Standards (CRM) are provided with an individually serial-numbered Traceable® Certificate is provided from our ISO/IEC 17025 calibration laboratory accredited by A2LA. It indicates traceability to standards provided by NIST (National Institute of Standards and Technology).

Traceable Conductivity and pH Buffer Standards

Traceable to NIST for accuracy

To assure accuracy an individually serial-numbered Traceable® Certificate is supplied from manufacturer with both bottles and One-Shots™ to indicate traceability to standards provided by NIST (National Institute of Standards and Technology) and/or a National Standards Laboratory. A2LA accredited certification provides highest achievable level of quality assurance, documentation, and accuracy. Certified Reference Materials are produced by an A2LA accredited ISO 34 certified reference material producer and by an A2LA accredited ISO/IEC 17025 calibration laboratory. Additional accreditations include ISO 31 (certificate content), and ISO 35 (statistical analysis), and ISO 9001 (certified quality manufacturer).



Traceable® Conductivity Standards (CRM)

TOP SELLER

Highest accuracy available assuring reliable results

- Certified Reference Material
- 100% compatible with all conductivity meters
- Each bottle is labeled for calibrating conductivity, resistivity and dissolved solids
- Accuracy at 25°C is ±0.25 microsiemens for 1, 5, 10 microsiemen solution or ±0.25% for other solutions or the uncertainty noted on the certificate
- Supplied: 16 ounce container, step-by-step calibration instructions, individual temperature compensation charts, traceability information, Traceable® Certificate

Traceable® One-Shot™ Conductivity Standards (CRM)

Calibration within disposable container eliminates contamination

- Certified Reference Material
- 100% compatible with all conductivity meters
- Accuracy: certificate stated uncertainty, or ±0.25 microsiemen or ±0.25%
- Supplied: 6-pack 100 ml container, step-by-step calibration instructions, individual temperature compensation charts, traceability information, Traceable® Certificate



4175

4065

Traceable® Conductivity Standards, Certified Reference Material Accredited ISO Guide 34, ISO Guide 35, ISO Guide 31, ISO/IEC 17025

| Cat. No. 16 oz. bottle | Cat. No. Individually Tested 16 oz. bottle | Cat. No. 100 ml One-Shot™ (6-pack) | Microsiemens/Micromhos | Megohms | TDS/PPM |
|---------------------------|---|---------------------------------------|---|----------|---------|
| 4274 | 4574 | — | 1 | 1 | 0.66 |
| 4270 | 4570 | 4271 | 5 | 0.2 | 3.3 |
| 4065 | 4565 | 4175 | 10 | 0.1 | 6.6 |
| 4066 | 4566 | 4176 | 100 | 0.01 | 66 |
| 4067 | 4567 | 4177 | 1000 | 0.001 | 666 |
| 4173 | 4573 | 4174 | 1413 | 0.00071 | 933 |
| 4068 | 4568 | 4178 | 10000 | 0.0001 | 6666 |
| 4069 | 4569 | 4179 | 100000 | 0.00001 | 66666 |
| 4161 | 4561 | 4580 | 150000 | 0.000006 | 100000 |
| 4162 | 4562 | 4581 | 200000 | 0.000005 | 133333 |
| — | — | 4172 | Assortment (one each of above One-Shot™, except 4271, 4580, 4581) | | |

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Traceable® pH Buffer Standards (CRM)



The most accurate pH Standards available anywhere

- 100% compatible with all makes and instruments and electrodes
- Accuracy at 25°C is ±0.010 pH
- Select values manufactured to IUPAC (International Union of Pure and Applied Chemistry) formulation—features long term buffer stability and buffer resistance to temperature changes during pH meter calibration
- Only Certified Reference Material meets all test requirements for Federal, State, and local agencies
- Triple-layered proprietary packaging—aluminum foil, PET and low-density polyethylene bag—prevents contamination by permeable gases and provides 2-year shelf life
- Each 16 ounce bottle or six pack single-use 100ml container is supplied with an individual temperature compensation chart, traceability information, Traceable® Certificate

| Traceable® pH Standards Certified Reference Material | | |
|--|----------|----------|
| Size | Cat. No. | pH Value |
| 16 oz. bottle | 4280 | 4.005 |
| | 4281 | 7.000 |
| | 4286 | 7.416 |
| | 4282 | 10.012 |
| 100 ml One-Shot™ (6-pack) | 4287 | 4.005 |
| | 4288 | 7.000 |
| | 4285 | 7.416 |
| | 4289 | 10.012 |



Redi-Stor™ Conductivity Probe Storage Solution

Eliminates probe contamination and preserves probe cleanliness

- Redi-Stor™ is ideal solution for storing conductivity probes
- It preserves probe's cleanliness, eliminates growths found when storing in water only, and maintains probe for immediate use with no conditioning
- Supplied: 16 ounce container, step-by-step calibration instructions, individual temperature compensation chart, Traceable® Certificate

| Cat. No. | Size |
|----------|---------------|
| 4170 | 16 oz. bottle |



Workstation Spilltray™ and Drying Rack

Chemical-resistant containment tray

- Easel design permits drying of odd shaped items
- Plastic grid cushions and protects against breakage and scratches
- Grid cuts drying time in half by permitting air circulation
- Entire tray is dishwasher safe

| Cat. No. | Size |
|----------|---------------------|
| 3450 | 16½ x 13 x ½ inches |



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Traceable® Certificate assures accurate lab tests

All Traceable® products are provided with a Traceable® Calibration Certificate from our ISO/IEC 17025 calibration laboratory. Thermometer, timer, and humidity certificates are accredited by the American Association for Laboratory Accreditation (A2LA).

A2LA is widely recognized internationally through bilateral and multilateral agreements and through its participation in the International Laboratory Accreditation (ILAC) and Multilateral Recognition Arrangement (MRA). Through Control Company's A2LA Accreditation, Traceable® Certificates are internationally recognized by accreditation agencies, governments, industrial companies, biomedical companies, universities, and hospitals in over 75 countries throughout Europe, the Middle East, North America, South America, Asia, and Africa.

Traceable® Certificate indicates the product is traceable to standards provided by the National Institute of Standards and Technology (NIST), a U.S. Government agency within the Commerce Department. The Traceable® Certificate complies with ANSI/NCSL Z540-1.

Accredited by A2LA (The American Association for Laboratory Accreditation) dedicated to "one test accepted everywhere, one accreditation accepted everywhere".

A2LA is your assurance of internationally recognized technical laboratory competence.

A2LA is recognized by ILAC and MRA.

Displays catalog number for complete product reference

Calls out the test equipment used for calibration

Reports environmental conditions at the time of measurement

Spells out test uncertainty ratio and confidence level

Lists specific conditions that may affect product accuracy

Supplied from our ISO 9001 quality facility certified by DNV

Traceable® Certificate

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1, and 9001

Cert. No.: 4000-60191

Instrument Identification: Model: 4000, SN: 50187328, Manufacturer: Control Company

Standards Equipment:

| Calibration | Serial Number | Due Date | NIST Traceable Reference |
|-------------------------------------|---------------|----------|--------------------------|
| Temperature Calibration Bath | A7324 | 2/23/14 | 100032201 |
| Thermometer Module | A1110 | 2/23/14 | 8-84829-1-1 |
| Thermometer Probe | 3008 | 11/09/12 | 100027281 |
| Temperature Calibration Bath 10-215 | A7332 | 11/09/12 | 10-10-2009-1-1 |
| Thermometer Module | A2128 | 11/09/12 | 100032281 |
| Thermometer Probe | 3002 | 11/09/12 | 82624099 |
| Temperature Calibration Bath 10-215 | 601375 | 3/20/14 | 62718085 |
| Thermometer Module | A2128 | 3/20/14 | 702205 |
| Thermometer Probe | 4367 | 7/24/13 | 605413 |
| Temperature Calibration Bath 10-215 | B18698 | 3/20/14 | |
| Thermometer Module | 3002 | | |
| Thermometer Probe | B18615 | | |

Certificate Information: Temperature: 23.5 C, Humidity: 43.0 RH @ 1013 mbar

| Units | Instr | In Tol | Humid | As Lab | In Tol | Min | Max | U | C |
|----------|-------|--------|---------|---------|--------|--------|---------|-------|------|
| Relative | N/A | N/A | 0.000 | 0.000 | Y | -0.000 | 0.000 | 0.003 | 3.61 |
| °C | N/A | N/A | 24.889 | 25.000 | Y | 24.949 | 25.060 | 0.014 | 3.61 |
| °C | N/A | N/A | 50.000 | 50.000 | Y | 49.950 | 50.050 | 0.014 | 3.61 |
| °C | N/A | N/A | 100.000 | 100.000 | Y | 99.950 | 100.050 | 0.014 | 3.61 |

Maintaining Accuracy: ±0.10°C

Recalibration: 12 months

CONTROL COMPANY 4455 Rex Road, Friendswood, Texas 77546 USA
 Phone 281 482-1714 Fax 281 482-9448 www.control3.com

Conforms to universally recognized ISO/IEC 17025 Standard, a requirement for any ISO 9000 quality facility

Establishes with reference numbers the unbroken chain of traceability to NIST

Displays serial number for total product identification

Spells out test uncertainty ratio and confidence level

Indicates Calibration Due Date

Specifies Calibration Date when the unit was tested

Signed by the Technical Manager

Provides measurement test results for your specific unit

Signed by the Quality Manager



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 Telephone 281 482-1714 • Fax 281 482-9448

ISO 9001 Quality Certified by DNV • ISO/IEC 17025 Calibration Laboratory Accredited by A2LA • ISO Guide 34 Certified Reference Material Producer Accredited by A2LA