

Certificate of Analysis

Custom Mix 6

Catalog Number: Q-10216-O
Lot Number: 200831
Manufacture Date: 08/31/2020

Expiration: 09/30/2024
Matrix: Soil
Hazards: Irritant

<u>Analyte</u>	<u>CAS</u>	<u>Analyte Purity</u>	<u>Gravimetric Concentration (mg/kg)</u>	<u>Acceptance Limits (mg/kg)</u>
Benzo(k)fluoranthene	207-08-9	100%	3.71 ± 0.03	1.85 - 5.56
Acenaphthene	83-32-9	100%	4.53 ± 0.04	2.27 - 6.80
Acenaphthylene	208-96-8	95.6%	3.67 ± 0.03	1.84 - 5.51
Anthracene	120-12-7	96.7%	3.82 ± 0.04	1.91 - 5.72
Fluorene	86-73-7	98.6%	3.94 ± 0.04	1.97 - 5.92
Naphthalene	91-20-3	99.9%	4.13 ± 0.04	2.07 - 6.20
Phenanthrene	85-01-8	98.7%	3.92 ± 0.04	1.96 - 5.88
Benz(a)anthracene	56-55-3	95.9%	3.89 ± 0.04	1.94 - 5.83
Benzo(a)pyrene	50-32-8	100%	4.00 ± 0.04	2.00 - 6.00
Chrysene	218-01-9	99.9%	4.17 ± 0.04	2.08 - 6.25
Fluoranthene	206-44-0	99.8%	6.36 ± 0.06	3.18 - 9.54
Indeno(1,2,3-c,d)pyrene	193-39-5	100.0%	3.95 ± 0.04	1.97 - 5.92
Pyrene	129-00-0	100%	4.07 ± 0.04	2.03 - 6.10
Benzo(b)fluoranthene	205-99-2	100%	3.87 ± 0.04	1.93 - 5.80
Benzo(g,h,i)perylene	191-24-2	96.9%	4.02 ± 0.04	2.01 - 6.03
Dibenz(a,h)anthracene	53-70-3	94.8%	3.68 ± 0.03	1.84 - 5.52

This certified reference material (CRM) was manufactured and certified by NSI Lab Solutions according to quality procedures meeting our accreditation requirements of ISO 17034:2016 and ISO/IEC 17025:2017. Our certificates and scopes of accreditation may be viewed at www.anab.org.

Storage & Instructions For Use

Store the sample at -10°C to -20°C.

Allow sample to equilibrate to room temperature.

This sample has been designed to be totally used. Do not subsample since intra-sample homogeneity cannot be assured.

Transfer the entire contents of the sample vial and rinse the vial with 2 small aliquots of extraction solvent adding rinsates to the extraction vessel. Complete the analysis according to your normal procedures.

Report results in units of mg/kg assuming a 30 g sample size.

No dry weight correction is required.

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Traceability Information

Analyte Source Materials: The highest purity analyte source materials are used in the manufacture of this sample. Analyte source material purity and associated uncertainty has been analytically verified against appropriate NIST SRMs, where available.

Balance: All analytical balances are calibrated on a semiannual basis by an ISO 17025 accredited calibration laboratory and are traceable to NIST. Traceable Calibration Certificate available upon request.

All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request.

Thermometer: All thermometers are NIST traceable through thermometers that are calibrated annually by an ISO 17025 accredited calibration laboratory.

Glassware: All glassware used in the manufacture of our samples is Class A. An in-house standard operating procedure is used to verify all glassware prior to it being placed into service. Volumetric pipetors are calibrated every four months by an ISO 17025 accredited calibration laboratory.

Intended Uses

- Calibration of analytical instruments
- Validation of analytical methods
- Preparation of working level reference materials, i.e. "check standards"
- Detection limit studies

Ken Grzybowski

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Mark Hammersla

Mark Hammersla, President