

Certificate of Analysis

Custom Mix 6

Catalog Number: Q-10216-O
Lot Number: NSI-PT260828100
Manufacture Date: 08/28/2026

Expiration: 08/31/2029
Matrix: Soil
Hazards: Carcinogen

<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%	4.4 ± 0.04	2.18	-	6.53
Acenaphthene	83-32-9	100%	4.0 ± 0.04	2.00	-	6.00
Acenaphthylene	208-96-8	96.5%	5.9 ± 0.05	2.93	-	8.80
Anthracene	120-12-7	100%	3.5 ± 0.03	1.75	-	5.24
Fluorene	86-73-7	98.0%	4.0 ± 0.04	1.98	-	5.94
Naphthalene	91-20-3	100%	3.4 ± 0.03	1.68	-	5.03
Phenanthrene	85-01-8	99.0%	4.2 ± 0.04	2.11	-	6.32
Benz(a)anthracene	56-55-3	99.2%	6.0 ± 0.06	3.02	-	9.05
Benzo(a)pyrene	50-32-8	100%	4.2 ± 0.04	2.08	-	6.25
Chrysene	218-01-9	100%	4.0 ± 0.04	2.01	-	6.02
Fluoranthene	206-44-0	100%	4.1 ± 0.04	2.07	-	6.20
Indeno(1,2,3-c,d)pyrene	193-39-5	99.2%	3.3 ± 0.03	1.66	-	4.98
Pyrene	129-00-0	99.4%	3.6 ± 0.03	1.78	-	5.35
Benzo(b)fluoranthene	205-99-2	100%	3.4 ± 0.03	1.68	-	5.05
Benzo(g,h,i)perylene	191-24-2	97.1%	4.0 ± 0.04	2.00	-	5.99
Dibenz(a,h)anthracene	53-70-3	100%	6.3 ± 0.06	3.14	-	9.42

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.

Packaging, Storage, Instructions For Use

This CRM is packaged in a bottle and must be stored at 2°C to 8°C. To use this CRM, allow it to reach room temperature. Mix it gently by inversion. Inspect for precipitate. If present, sonicate for a few minutes to redissolve.

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 rinses to the extraction vessel. Complete the analysis according to your normal procedures.

Report results in units of mg/kg based on a 30 g sample size. No dry weight correction is needed.

Certified concentration is based upon the gravimetric/volumetric true value when prepared according to instructions.

Acceptance limits are based upon USEPA solid and chemical Interlaboratory studies.



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Traceability Information

Analyte Source Materials: All analytes and matrix materials are obtained and verified by NSI from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of NSI CRMs are tracked and documented.

Method of Preparation: This CRM was verified Volumetrically/Gravimetrically.
Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use as per ISO/IEC 17025 requirements.

Balance: All analytical balances are calibrated on a semiannual basis by an ISO/IEC 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/IEC 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 standards 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/IEC 17025 accredited calibration laboratory.

Gravimetric Concentration: Gravimetric concentration is the made to manufacture value corrected for the determined analyte purity.

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

Ken Grzybowski, Organics Department Manager

Brad Lake

Brad Lake, Lead Chemist