

Certificate of Analysis

Custom Mix 2

Catalog Number: Q-10256-O
Lot Number: 210322
Manufacture Date: 03/22/2021

Expiration: 03/31/2024
Matrix: Solid
Hazards: Irritant

<u>Analyte</u>	<u>CAS</u>	<u>Analyte Purity</u>	<u>Gravimetric Concentration (mg/kg)</u>	<u>Acceptance Limits (mg/kg)</u>
alpha-BHC	319-84-6	100%	0.95 ± 0.002	0.38 - 1.52
Aldrin	309-00-2	99.3%	1.13 ± 0.002	0.45 - 1.80
beta-BHC	319-85-7	100%	1.09 ± 0.002	0.44 - 1.75
alpha-Chlordane	5103-71-9	100%	0.95 ± 0.002	0.38 - 1.51
cis-Nonachlor	5103-73-1	99.2%	1.01 ± 0.002	0.40 - 1.62
delta-BHC	319-86-8	99.9%	1.09 ± 0.002	0.44 - 1.75
Dieldrin	60-57-1	100%	0.92 ± 0.002	0.37 - 1.48
Endosulfan I	959-98-8	100%	1.07 ± 0.002	0.43 - 1.70
Endosulfan II	33213-65-9	100%	0.96 ± 0.002	0.39 - 1.54
Endrin	72-20-8	98.6%	0.97 ± 0.002	0.39 - 1.56
gamma-BHC (Lindane)	58-89-9	99.5%	1.11 ± 0.002	0.45 - 1.78
Heptachlor epoxide (Isomer A)	28044-83-9	100%	1.01 ± 0.002	0.41 - 1.62
Heptachlor epoxide (Isomer B)	1024-57-3	100%	1.11 ± 0.002	0.44 - 1.77
Hexachlorobenzene	118-74-1	100%	1.18 ± 0.002	0.47 - 1.89
Mirex	2385-85-5	100%	0.93 ± 0.002	0.37 - 1.48
o,p'-DDD	53-19-0	99.2%	1.00 ± 0.002	0.40 - 1.60
o,p'-DDE	3424-82-6	99.5%	0.96 ± 0.002	0.38 - 1.54
o,p'-DDT	789-02-6	99.5%	1.07 ± 0.002	0.43 - 1.72
4,4'-DDD	72-54-8	99.0%	1.06 ± 0.002	0.42 - 1.69
4,4'-DDE	72-55-9	98.8%	1.11 ± 0.002	0.45 - 1.78
4,4'-DDT	50-29-3	100%	0.97 ± 0.002	0.39 - 1.55
gamma-Chlordane	5103-74-2	100%	1.07 ± 0.002	0.43 - 1.71
trans-Nonachlor	39765-80-5	98.6%	0.93 ± 0.002	0.37 - 1.48

This CRM was manufactured by NSI Lab Solutions following quality procedures meeting the requirements of ISO 9001, ISO 17025, and ISO 17034. Acceptance limits are set at current industry standards. The study mean is set at the mean of an interlaboratory proficiency testing study with outlier rejection. This CRM is intended to be used to validate analytical methods, for detection limit studies, and analyst proficiency testing.

Storage & Instructions For Use

Store the sample at 2°C to 8°C.

Allow CRM to equilibrate to room temperature.

Transfer entire contents of the vial to your extraction vessel.

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Rinse the vial with 2 small aliquots of extraction solvent adding rinseates to the extraction vessel.
Extract and analyze by your approved method.
Report results in units of mg/kg assuming a 30 g sample size.
No dry weight correction is required.

Traceability Information

Analyte Source Materials: The highest purity analyte source materials are used in the manufacture of this CRM. 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.

Homogeneity/Stability/Expiration

The stability of this CRM is based on short-term and long-term monitoring of the certified concentration. The expiration date is guaranteed to be valid from the manufacture date and is based on results of long-term monitoring.

Ken Grzybowski

Ken Grzybowski, Organics Department Manager

Mark Hammersla

Mark Hammersla, President