nsi lab solutions
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7212 ACC Blvd. | Raleigh, NC 27617 | 800.234.7837

Certificate of Analysis

PCB in Soil QC

Catalog Number: SCQC-106
Lot Number: 101719
Manufacture Date: 10/17/2019

Expiration: 10/30/2022
Solvent: NA
Hazards: Irritant

Analyte	CAS	Analyte Purity	Gravimetric Concentration (mg/kg)			Acceptance Limits (mg/kg)
3,3',4,4'-tetrachlorobiphenyl	32598-13-3	100%	0.602	±	0.004	0.301 - 0.903
3,4,4',5-tetrachlorobiphenyl	70362-50-4	100%	0.648	±	0.005	0.324 - 0.972
2,3,3',4,4'-pentachlorobiphenyl	32598-14-4	99.2%	0.218	±	0.002	0.109 - 0.327
2,3,4,4',5-pentachlorobiphenyl	74472-37-0	100%	0.579	±	0.004	0.289 - 0.868
2,3',4,4',5-pentachlorobiphenyl	31508-00-6	100%	0.747	±	0.005	0.373 - 1.120
2',3,4,4',5-pentachlorobiphenyl	65510-44-3	99.3%	0.217	±	0.002	0.109 - 0.326
3,3',4,4',5-pentachlorobiphenyl	57465-28-8	100%	0.463	±	0.003	0.232 - 0.695
2,3,3',4,4',5-hexachlorobiphenyl	38380-08-4	100%	0.512	±	0.004	0.256 - 0.768
2,3,3',4,4',5'-Hexachlorobiphenyl	69782-90-7	100%	0.640	±	0.005	0.320 - 0.960
2,3',4,4',5,5'-hexachlorobiphenyl	52663-72-6	100%	0.264	±	0.002	0.132 - 0.396
3,3',4,4',5,5'-hexachlorobiphenyl	32774-16-6	99.0%	0.163	±	0.001	0.081 - 0.244
2,3,3',4,4',5,5'-heptachlorobiphenyl	39635-31-9	99.0%	0.572	±	0.004	0.286 - 0.858

This certified reference material (CRM) was manufactured and certified by NSI Lab Solutions according to quality procedures meeting our accreditation requirements of ISO 17034:2015 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 sealed container and must be stored at 15°C to 30°C. To use this CRM, allow it to reach room temperature. Complete the analysis according to your normal procedures. Report results in units of mg/kg based on a 30 g sample size. No dry wieght correction is needed.

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.

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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

Homogeneity

This standard was thoroughly mixed in production and is guaranteed homogenous.

Ken Grzybowski

Ken Grzybowski, Organics Department Manager

Mark Hammersla

Mark Hammersla, President