



Cambridge Isotope Laboratories, Inc.

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CERTIFICATE OF ANALYSIS

Product Name: 2,2',3,4,4',5',6-HEPTABDE (BDE-183)
(Isotopic Label & Enrichment Specification) (13C12, 99%) 50 UG/ML IN NONANE

Lot Number: SDDD-006

Catalog Number: EO-4985-0

Product Information

Chemical Purity Specification: $\geq 98\%$
Labeled CAS Number: NA
Unlabeled CAS Number: 207122-16-5
MW of fully enriched product: 734.39
Chemical Formula: *C12H3Br7O
Storage: Store at room temperature away from light and moisture
Stability: See storage and expiration date.

Certification

Cambridge Isotope Laboratories, Inc. guarantees that this material meets or exceeds the specifications stated. Absolute identity as well as chemical and isotopic purities are assured by the use of unambiguous synthetic routes and multiple chemical analyses whenever possible. Results are representative of QC testing at time of release from Quality Control unless otherwise stated.

Volumetric measurements were made with Class A glassware. Gravimetry is traceable to the NIST through calibrated balances and certified, calibrated, standard weights. The calibrations are traceable to the NIST under Test No. 822/270236-04. The calibrations also meet specifications outlined in ISO 9001, ISO/IEC 17025, ANSI/NSCL Z540-1-1994, NCR Document 10CFR50 Appendix B, and applicable subdocuments.

This COA references the bulk catalog number before packaging. The COA also applies to the CIL finished good catalog number. Some possible packaging sizes and their corresponding suffix are -1.2, -1, -0.5, -10, or -0.1.

Approved by: Thomas Dorsey

Thomas Dorsey, Ph.D., Quality Assurance

Quality Control Tests and Results

QC Release Date	7/31/2013
Expiration Date	7/31/2023
Concentration Based on Gravimetry	50.0 $\mu\text{g/mL}$
Chemical Purity of Neat Material(s)	98.2%
GC for Concentration	52.9 \pm 3.1 $\mu\text{g/mL}$ (k=2)

File :C:\msdchem\1\data\052013\05201303.D
Operator : CT
Acquired : 20 May 2013 9:48 using AcqMethod BDESC COC.M
Instrument : 5975 MSD
Sample Name: EO-4985-0
Misc Info : 2,2',3,4,4',5',6-HeptaBDE 13C12, SDDD-006
Vial Number: 25

