Certificate of Analysis

Reference Material & Standard

Product Name:	11 Stable Isotope Labeled Organophosphate Mix Solution in Acetonitrile, 10µg/mL	**Catalogue Number:**	MCPD191343
Appearance:	Liquid	**Lot Number:**	0303-SA-7917
Solvent:	Acetonitrile	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Mar 02, 30		

Chemical Structure:

N/A

Warning:



NO.	Component	CAS No.	Certified Concentration Value (10µg/mL)	Uncertainty (%)
1	4-hydroxyphenyl diphenyl phosphate-d10	56806-74-7(Unlabelled)	9.5	1.8
2	2-Hydroxyethyl bis(2-butoxyethyl) phosphate-d4	2469195-92-2	9.5	1.8
3	Di-p-tolyl phosphate-d14	2514953-39-8	10.0	1.8
4	Bis(2-chloroethyl) phosphate-d8	1477495-02-5	9.6	1.8
5	Bis(1-chloro-2-propyl) phosphate-d12	1870073-89-4	10.3	1.8
6	Bis(butoxyethyl) phosphate-d8	2305665-16-9	10.3	1.8
7	Dibutyl phosphate-d18	156213-21-7	9.9	1.8
8	Bis(1-chloroprop-2-yl) (1-hydroxyprop-2-yl) phosphate-d6	1477495-11-6 (Unlabeled)	10.4	1.8
9	Diethyl phosphate-d10	598-02-7 (Unlabelled)	9.9	1.8
10	Dimethylphosphate-d6 sodium salt	157487-94-0	10.0	1.8
11	Diphenyl phosphate-d10	1477494-97-5	10.0	1.8

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Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by: Lisa Date: Mar 03, 26

Reviewed by: Yuki Date: Mar 03, 26

Approved by General Manager: David Date: Mar 03, 26

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Directions:

1. General description: This product was dissolved in Acetonitrile and sub-packed in ampoule bottles. The outer packaging is plastic cylinder.

2. Characterization strategy: Certified reference materials were selected as raw materials. Characterization was based on the mass and volume of the components used in the preparation process. external standard method was used to verify the prepared value.

3. Metrological traceability: Through the use of raw materials with traceable purity values and tested/calibrated quality or volume measures, certified value results are ultimately traceable to SI basic units of mass kilogram (kg) and national statutory volume the unit of measurement liter (L).

4. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.

5. Minimum sample size: For once use only.

6. Instructions for handling and correct use: Please shake thoroughly before use to ensure homogeneous.

Document Version:

Revision No.	Date	Reason for Revision
01	Mar 03, 26	First release.

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