

Certificate of Analysis

Phenylalanine OAS
Cat No AEB2148 - Certificate No 327808

General

This Organic Analytical Standard (OAS) consists of a purified and homogeneous batch of Phenylalanine for use as a routine working microanalytical standard for the determination of Carbon, Hydrogen, Nitrogen and Oxygen.

Certified Values and Uncertainty

The uncertainty in the certified value is expressed as expanded uncertainty, U, at 95% confidence and is calculated in accordance with ISO/IEC17025 according to GUM (Guidelines to Uncertainty in Measurement). Confidence limits include those due to sampling variation, weighing, calibration and measurement errors. The certified values are based upon the results of 20 determinations.

The certified values for Carbon, Hydrogen and Nitrogen were determined by elemental analyser calibrated to Acetanilide 141d from National Institute of Standards and Technology (NIST), Maryland, USA.

The certified values for Oxygen were determined by elemental analyser calibrated to Cystine 143d from National Institute of Standards and Technology (NIST), Maryland, USA.

<i>Element</i>	<i>Certified Value</i> (% w/w)	<i>Uncertainty</i> (+/- %)	<i>Theoretical</i> (%w/w)
Carbon	65.39	0.19	65.44
Hydrogen	6.70	0.11	6.71
Nitrogen	8.47	0.11	8.48
Oxygen	19.38	0.15	19.37

Expiration of Certification

The certification of this OAS is valid until 24-Mar-24 within the measurement uncertainties specified.

Storage and Use

This OAS should be stored at temperatures between 20 °C to 25 °C and should be kept tightly sealed away from light and moisture. It is non-hygroscopic under normal conditions and can be used without preliminary drying.

Certification Information

The technical aspects involved in the preparation, certification and issuance of this (In)Organic Analytical Standard (IAS/OAS) were carried out for and on behalf of Alpha Resources LLC, 3090 Johnson Rd. Stevensville, MI 49127
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for and on behalf of Alpha Resources LLC

Jon Davies

