



## CERTIFICATE OF ANALYSIS

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### 1. Identification

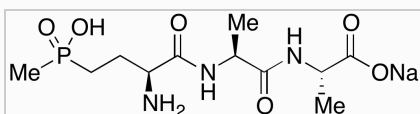
**Catalogue Number:** B372300

**CAS Number:** 71048-99-2

**Product:** Bialaphos Sodium Salt

**Synonym:** (2S)-2-Amino-4-(hydroxymethylphosphinyl)butanoyl-L-alanyl-L-alanine Monosodium Salt; ?-(Hydroxymethylphosphinyl)-L-?-aminobutyryl-L-alanyl-L-alanine Monosodium Salt; Bilanafos Sodium Salt; Herbi-Ace; Herbie; MW 801; SF 1293

**Structure:**



**Molecular Formula:**

C<sub>11</sub>H<sub>21</sub>N<sub>3</sub>NaO<sub>6</sub>P

**Molecular weight:**

345.26

**Source of Product:**

N/A

**Solubility:**

DMSO (Very Slightly),  
Methanol (Slightly), Water  
(Slightly)

**Lot Number:** 20-SBL-95-1

**Purity:** 96%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** 4°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Elemental Analysis	Conforms	%C: 35.45, %H: 6.26, %N: 10.89
Appearance	White to Pale Beige Solid	Pale Yellow Solid
NMR	Conforms to Structure	Conforms
P NMR	Conforms to Structure	Conforms
Sodium Content	Report Result	6.33% by Ion Chromatography
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	96.39% (ELSD)
Specific Rotation	Report Result	-24.2° (c = 0.1, Water)

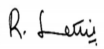
**Additional Information:** Contains: ~2.0% Methanol

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

**Reviewed By**

Swathi Reddy



**Reviewed By**

Toni Rantanen



**C of A Approved  
By**

Chanell Chu



**Test Date**

1/14/2022

**Retest Date**

1/12/2026