



## CERTIFICATE OF ANALYSIS

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### 1. Identification

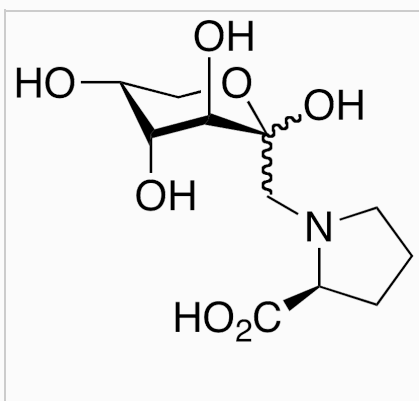
**Catalogue Number:** F792565

**CAS Number:** 29118-61-4

**Product:** Fructose-proline (mixture of diastereomers)

**Synonym:** 1-(1-Deoxy-D-fructos-1-yl)-L-proline; (S)-1-(2-Carboxy-1-pyrrolidinyl)-1-deoxy-D-fructose; 1-Deoxy-1-L-proline-D-fructose; 1-Deoxy-1-L-proline-D-fructose;

**Structure:**



**Molecular Formula:**

C<sub>11</sub>H<sub>19</sub>NO<sub>7</sub>

**Molecular weight:**

277.27

**Source of Product:**

Synthetic

**Solubility:**

DMSO (Slightly), Methanol (Slightly, Heated), Water (Slightly)

**Lot Number:** 1-ALI-118-1

**Purity:** 97%

**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:                          |
|--------------------|---------------------------------|-----------------------------------|
| Appearance         | Pale Yellow to Dark Brown Solid | Pale Beige to Light Beige Solid   |
| NMR                | Conforms to Structure           | Conforms                          |
| HPLC Purity        | Report Result                   | 95.53% (ELSD)                     |
| Elemental Analysis | Conforms                        | %C: 44.00, %H: 7.04, %N: 5.07     |
| MS                 | Conforms to Structure           | Conforms                          |
| Specific Rotation  | Report Result                   | -85.5° (c = 0.2, Water)           |
| Water Content      | Report Result                   | ~7.7% based on Elemental Analysis |

**Additional Information:** N/A

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 | Reviewed By   | C of A Approved By | Test Date  | Retest Date |
|-------------|---------------|--------------------|------------|-------------|
| Nicole Yip  | Toni Rantanen | Chanell Chu        | 12/10/2021 | 12/8/2025   |