

## 1. Identification

Catalogue Number

A790038

Lot Number

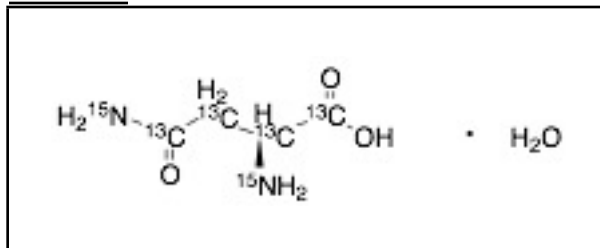
3-AZP-60-1

Product Name

L-Asparagine-13C4, 15N2 Hydrate

Synonyms

Structure



CAS Number

202406-87-9

Solubility

Aqueous Acid (Slightly), Water (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

$^{13}\text{C}_4\text{H}_8^{15}\text{N}_2\text{O}_3 \cdot$

Source of Product

N/A

Long Term Storage Conditions

4°C

Molecular Weight

138.08 + 18.02

Purity

>95%

## 2. Warnings

Not Determined

## 3. Analytical Information

| <u>Tests</u>    | <u>Specifications</u>    | <u>Results</u>           |
|-----------------|--------------------------|--------------------------|
| Appearance      | White to Off-White Solid | White to Off-White Solid |
| NMR             | Conforms to Structure    | Conforms                 |
| C NMR           | Conforms to Structure    | Conforms                 |
| HPLC Purity     | >95%                     | 96.01% (ELSD)            |
| MS              | Conforms to Structure    | Conforms                 |
| Isotopic Purity | >95%                     | 99.1%                    |
| Water Content   | Report Result            | 12.0% by Karl Fischer    |

## Additional Information

Normalized Intensity:  $d_0 = 0.08\%$ ,  $d_1 = 0.05\%$ ,  $d_2 = 0.00\%$ ,  $d_3 = 0.00\%$ ,  $d_4 = 0.17\%$ ,  $d_5 = 4.46\%$ ,  $d_6 = 95.25\%$

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm 2\%$ . 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

| <u>Reviewed by</u>                                                                 | <u>Reviewed by</u>                                                                  | <u>C of A Approved by</u>                                                           | <u>Test Date</u> | <u>Retest Date</u> |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|--------------------|
|  |  |  | 9/9/2022         | 9/7/2026           |
| Sarbjit Kaur                                                                       | Toni Rantanen                                                                       | Chanell Chu                                                                         |                  |                    |
| Product Quality Specialist                                                         | Manager, Quality Assurance                                                          | Jr. Quality Assurance                                                               |                  |                    |