

## Analytical Data Sheet

Lot number **1060636**  
not for drug use

Catalog number **F-3425.0025**  
Product number **4028945.0025**  
Product **H- D- Asn- OH · H<sub>2</sub>O**  
Molecular formula **C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub> · H<sub>2</sub>O**  
Relative molecular mass **150.13**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 32.0%</td> <td>C = 32.0%</td> </tr> <tr> <td>H = 6.7%</td> <td>H = 6.6%</td> </tr> <tr> <td>N = 18.7%</td> <td>N = 18.7%</td> </tr> </tbody> </table>	Theory	Found	C = 32.0%	C = 32.0%	H = 6.7%	H = 6.6%	N = 18.7%	N = 18.7%
Theory	Found								
C = 32.0%	C = 32.0%								
H = 6.7%	H = 6.6%								
N = 18.7%	N = 18.7%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -32.3^\circ$ (5% in 1N HCl) (water-free)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.1% L-enantiomer								
Other amino acids (GC)	< 0.1% aspartic acid < 0.2% any other								
Water content (KF volumetric)	12.1%								

Latest update: July 28, 2015

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