

## Analytical Data Sheet

Lot number **1075431**  
not for drug use

Catalog number **E-3705.0005**  
Product number **4042263.0005**  
Product **Ac- Asn- OH**  
Molecular formula  $C_6H_{10}N_2O_4$   
Relative molecular mass 174.16

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in 80% AcOH)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = +34.5^\circ$ (1% in 80% AcOH)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Asn-OH
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 chloroform/methanol/acetic acid/H <sub>2</sub> O 60/45/14/6 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	0.2% D-enantiomer
Assay (elemental analysis)	99.0% (Nth 16.08 %, Nfd 15.92 %)
Water content (KF volumetric)	1.3%

Latest update: February 01, 2018

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