

Analytical Data Sheet

Lot number **1065961**
not for drug use

Catalog number **G-1545.0005**
Product number **4000411.0005**
Product **Aspartame**
H- Asp- Phe- OMe
Molecular formula **C₁₄H₁₈N₂O₅**
Relative molecular mass **294.31**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in 80% acetic acid)
Identification (TLC)	complies with authentic material
Melting point	231 °C
Specific optical rotation	$[\alpha]_D^{24} = + 33.3^\circ$ (1% in acetic acid)
Purity (HPLC)	99.5% (TFA)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-Asp-Phe-OH
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/30/9/16.5 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	97.9% (Cth 57.14%, Cfd 55.96%)
Water content (KF volumetric)	1.5%

Latest update: May 23, 2016

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