

Analytical Data Sheet

Lot number **1066913**
not for drug use

Retest date September 2016
 Catalog number **I-1180.0250**
 Product number **4002702.0250**
 Product **H- Glu- AMC**
 Molecular formula $C_{15}H_{16}N_2O_5$
 Relative molecular mass 304.30

Tests	Results
Appearance	off-white powder
Appearance of solution	clear, colorless solution (10 mg/mL in 80% acetic acid)
Identification (elemental analysis)	Theory Found C = 58.5% C = 58.5% H = 5.4% H = 5.4% N = 9.0% N = 9.0% calc. x 0.12 H ₂ O (0.7%) x 0.07 AcOH (1.4%)
Identification (TLC)	complies with authentic material
Purity (TLC)	≥ 98%
Related impurities (TLC)	< 0.1% AMC (7-amino-4-methylcoumarin)
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 chloroform/methanol/acetic acid 32% 5/3/1 chloroform/methanol/acetic acid/H ₂ O 60/45/14/6 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Assay (elemental analysis)	97.8% (Nth 9.21%, Nfd 9.01%)
Water content (KF volumetric)	0.7%
Acetic acid content (HPLC)	1.3141%

Latest update: July 22, 2016

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