

Analytical Data Sheet

Lot number **1066836**
not for drug use

Catalog number **F-3610.0005**
Product number **4028063.0005**
Product **H- 4- Cyano- Phe- OH**
Molecular formula $C_{10}H_{10}N_2O_2$
Relative molecular mass 190.20

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in H ₂ O) (warmed at 80 °C)
Identification (elemental analysis)	Theory Found C = 58.8 % C = 58.4 % H = 5.7 % H = 5.5 % N = 13.7 % N = 13.7 % calc. as 0.78 H ₂ O (6.9 %)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_{365}^{24} = -38.0^\circ$ (1 % in H ₂ O)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.1% D- Enantiomer
Assay (elemental analysis)	92.9% (Nth 14.73 %, Nfd 13.68 %)
Water content (KF volumetric)	6.9%

Latest update: July 11, 2016

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