



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-489152
Lot Number: SAMPLE
Product Name: (S)-4-Hydroxy Penbutolol Hydrochloride
CAS Number: 1346617-04-6
Molecular Formula: $C_{18}H_{29}NO_3 \cdot HCl$
Molecular Weight: 343.89
Native Source: Synthetic

Test	Specification	Result
Appearance	White to Off-white solid	White solid
Identification (NMR)		Complies
Identification (Mass Spectrometry)		Complies
Purity (TLC)		98%
Elemental Analysis		%C: 61.33 %H: 8.98 %N: 4.29
Melting Point		70 - 75 °C
Specific Rotation		-25.9° (c=0.1, Methanol) -23.2° (c=0.5, Methanol) -22.7° (c=0.5, Methanol)
Chlorine Content		9.93 % by Ion Chromatography

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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