



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-3580
Lot Number: SAMPLE
Product Name: Propranolol hydrochloride
CAS Number: 3506-09-0
Molecular Formula: $C_{16}H_{22}ClNO_2$
Molecular Weight: 295.8

Test	Specification	Result
Appearance	White crystalline powder	Complies
Identification	Infra-red absorption spectrum should be identical with contrast spectrum	Complies
Identification	Major peak retention time of assay preparation is corresponds to that standard preparation	Complies
Identification	Should be positive reaction	Complies
Purity	99.0 - 101.0%	99.6%
Clarity of Solution		Complies
Melting Point	162 - 165 °C	163 - 164.5 °C
pH	5.0 - 6.0 (25 °C)	5.5 (25 °C)
Solubility	Soluble in 1% W/V Water	Complies
Color of Solution		Complies
Optical Rotation	- 1.0° - +1.0°	+ 0.08°
Acidity or Alkalinity		Complies
Heavy Metals		Complies
Loss on Drying	≤ 0.5%	0.09%
Related Substances	Total Impurities: ≤ 0.4% Single substances: ≤ 0.1% Chloroform: ≤ 60 ppm 1,4-Dioxane: ≤ 380 ppm Methyl one Chloride: ≤ 600 ppm Tapped Chloride: ≥ 0.5 g/ml Trichloroethylene: ≤ 80 ppm Granulometry(100 mesh): ≥ 70%	Total Impurities: 0.25% Single substances: 0.06% Chloroform: Cpmplies 1,4-Dioxane: Cpmplies Methyl one Chloride: Cpmplies Tapped Chloride: Cpmplies Trichloroethylene: Cpmplies Granulometry(100 mesh): Cpmplies

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.

Sulfated Ash

≤ 0.1%

0.05%

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