

产品检测报告
Certificate of Analysis

产品名称 Product Name: 缬氨霉素

INCI 名称 INCI Name: Valinomycin

分子式 $C_{54}H_{90}N_6O_{18}$

分子量 1111.32

CAS: 2001-95-8

生产日期 Production Date: 2024.03.01

产品数量 Quantity: 500mg

有效日期 Expiration Date: 2025.03.01

检验项目 Items	实测值 Measured value
纯度 Purity	$\geq 98\%$ (TLC) $\geq 95\%$ (HPLC)
外观 Appearance	White
形态 Form	Solid
熔点 Melting Point	187-190°C
比旋光度 Specific Rotation	D20 +31.0° (c = 1.6 in benzene)
沸点 Boiling Point	821.74°C (rough estimate)
密度 Density	1.060
折射率 Refractive Index	1.6400 (estimate)
闪点 Flash Point	87°C
溶解度 Solubility	DMSO: ≥ 10 mg/mL
酸度系数(pKa)	11.32 \pm 0.70 (Predicted)
旋光性 Optical Activity	$[\alpha]_{20/D} +32 \pm 2^\circ$, c = 1.6% in benzene
水溶性 Water Solubility	Soluble in DMSO at 10mg/ml. Insoluble in water
稳定性 Stability	Stable for 1 year from date of purchase as supplied. Solutions in DMSO may be stored at -20°C for up to 3 months.

