

Certificate of Analysis

Product Name	Ceftobiprole medocaril sodium
Catalog No.	V44492
Batch No.	V4449201

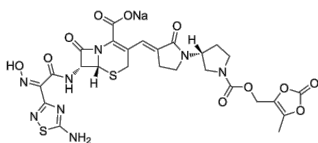
1. Physical and Chemical Properties

Appearance	off-white powder
Molecular Formula	C ₂₆ H ₂₅ N ₈ NaO ₁₁ S ₂
Molecular Weight	712.643473386765
Purity	≥98.0%
CAS No.	252188-71-9
Production Date	
Retest Date	2027-10-22

2. Analytical Data

Test Item	Specification	Result
Solubility	Freely soluble in water	Conforms
IR	The infra-red reference spectra of this product should be consistent with that of the Ceftobiprole Medocaril Sodium reference.	Conforms
HPLC	The retention time of the major peak of the test solution should correspond to that of the reference solution in the chromatogram obtained in the Assay	Conforms
Sodium ion	Positive reaction (precipitation of sodium ions)	Conforms
Water content	≥4.0%	1.8%
pH	4.0-7.0	5.9
Clarity of solution	Not more turbid than Standard Turbidity Solution No.5	Conforms
Related substances	Impurity 24 ≤ 1.5% Impurity 25 ≤ 1.5% Impurity 37 ≤ 1.7% Impurity 38 ≤ 0.8% Impurity 35 ≤ 0.7% Any other individual impurity ≤ 0.15% Total impurities ≤ 5.0%	0.25% 0.58% 0.68% 0.16% 0.17% 0.08% 2.5%
Ceftobiprole	≥0.5%	0.36%
Residual solvent	Acetone ≤ 4.0% DMSO ≤ 5.0% Methanol ≤ 0.3% Dichloromethane ≤ 0.06%	0.6% 2.7% 0.08% 0.005%
2-Ethylhexanoic acid	≤0.5%	0.002%
Heavy Metal	No more than 10 ppm	Conforms
Assay	Calculated as anhydrous and solvent-free, the content should be 90.0%~102.0%	96.1%

3. Structure



4. Storage Condition

Storage Condition	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month
Note: Please store this product in a sealed and protected environment (e.g. under nitrogen), avoid exposure to moisture and light.			

Products are for research use only • Not for human or veterinary use

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