

## Certificate of Analysis Rifabutin

CAS No.	72559-06-9	Code	BIOJRIF001
Batch No	240701	Manufacture Date	Jun.28, 2024
Retest Date	Jun.27, 2028	Quantity	1Kg

<b>Testing Items</b>	Specifications	Results
Appearance	Reddish-violet amorphous powder.	Reddish-violet amorphous powder.
Identification	The infrared absorption spectrum of test sample corresponds to that of Rifabutin CRS.	Complies
	The retention time of the major peak in the chromatogram of the assay preparation corresponds to that in the chromatogram of the standard preparation obtained as directed in the assay.	Complies
Solubility	Soluble in chloroform and in methanol, sparingly soluble in alcohol, very slightly soluble in water	Complies
Assay	950μg/mg~1020μg/mg (Calculated on the anhydrous basis)	971.7μg/mg
Limit of N-isobutylpiperido ne	No spot in the chromatogram of the test solution at an RF value corresponding to that of N-isobutylpiperidone is more intense than that of the principal spot observed in the chromatogram obtained from the standard solution containing 0.05 mg of N-isobutylpiperidone per mL(0.5%)	Complies
Organic Impurities	Impurity A(16-Desacetylrifa-butin) ≤1.0%	0.06%
	Impurity B(Rifabutin 14R epi-mer) ≤0.75%	0.31%
	Impurity C(Rifabutin N-ox-ide) $\leq 0.50\%$	0.07%
	Impurity D(Rifabutin 21R epimer) ≤0.75%	Not detected
	Impurity E(Didehydrorifabutin) ≤1.0%	0.14%
	Impurity F(Rifabutin N-oxide open ring) ≤ 0.25%	0.07%
	Specified unknown impurity≤0.50%	Not detected
	Any unspecified impurity ≤0.5%	0.19%
	Total impurities≤3.0%	1.9%

Water	≤2.5%	0.70%	
Residual solvents	Ethanol≤5000ppm	57ppm	
	Acetone≤5000ppm	Not detected	
	Dichloromethane≤600ppm	Not detected	
	Ethyl acetate≤5000ppm	Not detected	
	Tetrahydrofuran≤720ppm	Not detected	
	Cyclohexane≤3880ppm	Not detected	
	Ethylene glycol monomethyl ether≤50ppm	Not detected	
	Pyridine≤200ppm	Not detected	
	Dimethylformamide≤880ppm	Not detected	
	Benzene≤2ppm	Not detected	
Microbial limits	$TAMC \leq 10^3 cfu/g$	Complies	
	$TYMC \leq 10^2 cfu/g$	Complies	
	E. coli(in 1g): Absence	Not detected	
Conclusion	This product conforms to USP2022 standard		

<sup>\*</sup>Storage condition: Store below 25°C, Protect from moisture and light.

