Certificate of Analysis

Product	Thymalfasin	**CAS No.**	69440-99-9
Product No.	LJTHA-001	**Batch No.**	LJTHA2026092601
Date of Mfg	2026/09/26	**Retest Date**	2028/09/25
Test Method	In-house		
Storage Conditions	Protected from light, sealed, store at 2~8℃		

Test	Acceptance Criteria	Results
Appearance	White or off-white Powder or loose lump	Meets the standard
Solubility	Insoluble in acetonitrile, ether, slightly soluble in water, soluble in trifluoroacetic acid	Meets the standard
Specific optical rotation	-100.0°to -110.0°(Anhydrous and acetic acid-free substance)	-104.9°
Identification	The chemical identification reaction of the substance should be blue-purple (Positive reaction)	Meets the standard
	The retention time of the principal peak of the test solution corresponds to that of the reference solution, as obtained in the	Meets the standard
	Molecular weight (MS): 3108.3 ± 1.0	3108
Solution clarity	The solution should be clear and colorless. If turbid, it should not be thicker than that of reference suspension 1.	Meets the standard
Purity	≥85.0%	90.4%
Related Substances	Max Single Impurity ≤1.0%	0.25%
	Total Impurities ≤3.0%	0.96%
Water content	≤5.0%	2.9%
Assay	95.0%~105.0% (Anhydrous and acetic acid-free substance)	100%
Residual Solvents	Methanol ≤3000ppm	ND
	MeCN ≤410ppm	ND
	DCM ≤600ppm	ND
	Ether ≤1000ppm	ND
	DMF ≤880ppm	ND
	Trifluoroacetic acid ≤5000ppm	ND
Elemental Impurities	As：≤1.5ppm	ND
	Cd：≤0.2ppm	ND
	Hg：≤0.3ppm	ND
	Pb：≤1.5ppm	ND
Microbial Limit	TAMC: ≤100cfu/g	<10cfu/g
	TYMC: ≤50cfu/g	<10cfu/g
Bacterial Endotoxin	≤5EU/mg	Conforms

Conclusion	☑Meet the requirements ☐Do not meet the requirements
Remark	It is only supplied as chemical product. It is only for R&D use.

Reporter/Date: 张洁 2026/10/30 **Approver/Date:** 刘辉 /10/3

