



CERTIFICATION OF ANALYSIS	
Thymalfasin Powder (Synthetic)	CAS: 69440-99-9
Product No.:800062	Batch No.:25120108
Date of Mfg:Dec 01, 2025	Date of Exp: Nov 30, 2027
Sequence: Ac-Ser-Asp-Ala-Ala-Val-Asp-Thr-Ser-Ser-Glu-Ile-Thr-Thr-Lys-Asp-Leu-Lys-Glu-Lys-Lys-Glu-Val-Val-Glu-Glu-Ala-Glu-Asn	

Test	Specification	Result
Assay	95.0%-105.0% (anhydrous and acetic acid free substance)	99.4%

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Test	Specification	Result																																				
Appearance	White or off-white powder	White powder																																				
Solubility	Soluble in Water. The principal peak in the chromatogram obtained with the test solution is similar in retention time to principal peak in the chromatogram obtained with the reference solution.	Conforms																																				
HPLC	Conforms																																					
Amino acid analysis	<table border="0"> <tr><td>Asp</td><td>3.4-4.4</td></tr> <tr><td>Glu</td><td>5.4-6.6</td></tr> <tr><td>Ser</td><td>2.4-3.3</td></tr> <tr><td>Thr</td><td>2.4-3.3</td></tr> <tr><td>Ala</td><td>2.7-3.3</td></tr> <tr><td>Val</td><td>2.4-3.3</td></tr> <tr><td>Leu</td><td>0.8-1.1</td></tr> <tr><td>Ile</td><td>0.8-1.1</td></tr> <tr><td>Lys</td><td>3.6-4.4</td></tr> </table> <p>No more than the traces of the other amino acids are present.</p>	Asp	3.4-4.4	Glu	5.4-6.6	Ser	2.4-3.3	Thr	2.4-3.3	Ala	2.7-3.3	Val	2.4-3.3	Leu	0.8-1.1	Ile	0.8-1.1	Lys	3.6-4.4	<table border="0"> <tr><td>Asp</td><td>3.9</td></tr> <tr><td>Glu</td><td>5.9</td></tr> <tr><td>Ser</td><td>2.9</td></tr> <tr><td>Thr</td><td>2.9</td></tr> <tr><td>Ala</td><td>3.0</td></tr> <tr><td>Val</td><td>2.8</td></tr> <tr><td>Leu</td><td>0.9</td></tr> <tr><td>Ile</td><td>1.0</td></tr> <tr><td>Lys</td><td>3.8</td></tr> </table> <p>No more than the traces of the other amino acids are present.</p>	Asp	3.9	Glu	5.9	Ser	2.9	Thr	2.9	Ala	3.0	Val	2.8	Leu	0.9	Ile	1.0	Lys	3.8
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MS	3108.3±1.0	3107.9																																				
Related Substances	Unspecified impurity for each impurity: NMT1.0%	0.31%(single largest impurity)																																				
Purity(HPLC)	NLT98%	99.4%																																				
Acetic acid	NMT0.5%	N.D																																				
Water	NMT7.0%	2.9%																																				