



Hangzhou Peptidego Biotech Co.,Ltd

CERTIFICATION OF ANALYSIS

DALARGIN Powder (Synthetic)	CAS: 81733-79-1
Product No.:800014	Batch No.: 17110014
Date of Mfg: Nov 27, 2017	Date of Exp: Nov 26, 2019
Sequence: Tyr-DAla-Gly-Phe-Leu-Arg	

Test	Specification	Result																																				
Appearance	White or off-white powder	White powder																																				
Solubility	soluble in water	conforms																																				
HPLC	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																																				
Amino acid analysis	<table border="0"> <tr><td>Arg</td><td>0.9-1.1</td><td>Arg</td><td>1.0</td></tr> <tr><td>Gly</td><td>0.9-1.1</td><td>Gly</td><td>1.0</td></tr> <tr><td>Leu</td><td>0.9-1.1</td><td>Leu</td><td>0.9</td></tr> <tr><td>Ala</td><td>0.9-1.0</td><td>Ala</td><td>1.0</td></tr> <tr><td>Tyr</td><td>0.9-1.1</td><td>Tyr</td><td>0.9</td></tr> <tr><td>Phe</td><td>0.9-1.1</td><td>Phe</td><td>1.0</td></tr> </table> <p>No more than the traces of the other amino acids are present.</p>	Arg	0.9-1.1	Arg	1.0	Gly	0.9-1.1	Gly	1.0	Leu	0.9-1.1	Leu	0.9	Ala	0.9-1.0	Ala	1.0	Tyr	0.9-1.1	Tyr	0.9	Phe	0.9-1.1	Phe	1.0	<table border="0"> <tr><td>Arg</td><td>1.0</td></tr> <tr><td>Gly</td><td>1.0</td></tr> <tr><td>Leu</td><td>0.9</td></tr> <tr><td>Ala</td><td>1.0</td></tr> <tr><td>Tyr</td><td>0.9</td></tr> <tr><td>Phe</td><td>1.0</td></tr> </table> <p>No more than the traces of the other amino acids are present.</p>	Arg	1.0	Gly	1.0	Leu	0.9	Ala	1.0	Tyr	0.9	Phe	1.0
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Gly	0.9-1.1	Gly	1.0																																			
Leu	0.9-1.1	Leu	0.9																																			
Ala	0.9-1.0	Ala	1.0																																			
Tyr	0.9-1.1	Tyr	0.9																																			
Phe	0.9-1.1	Phe	1.0																																			
Arg	1.0																																					
Gly	1.0																																					
Leu	0.9																																					
Ala	1.0																																					
Tyr	0.9																																					
Phe	1.0																																					
MS	725.8 ± 1.0	725.4																																				
Related Substances	<p>Unspecified impurity for each impurity: NMT1.0%</p> <p>Total impurity: NMT 2.0%</p>	<p>0.22% (single largest impurity)</p> <p>0.39%</p>																																				
Acetic acid	NMT 14.0%	9.0%																																				
Water	NMT 7.0%	4.1%																																				
Bacterial endotoxins	Less than 70IU/mg	conforms																																				

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Sequence: Tyr-DAla-Gly-Phe-Leu-Arg	

Test	Specification	Result
Assay	97.0%-103.0% (anhydrous and acetic acid free substance)	99.3%
Residual solvent Methanol Acetonitrile Triethylamine	NMT 3000ppm NMT 410 ppm NMT 320 ppm	conforms

Storage: In an air tight container,protected from light at temperature 2-8°C.

Conclusion: the product complies with specification.

It is only supplied as chemical product.

Analysis :Janie.zhang

Date :2017.11.27

Approved by : Christ.zheng

Date :2017.11.27



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