

## CERTIFICATION OF ANALYSIS

BPC 157 Powder (Synthetic)	CAS: 137525-51-0
Product No.:	Batch No.: 23011102
Date of Mfg: Jan 11, 2023	Date of Exp: Jan 10, 2025
Sequence: Gly-Glu-Pro-Pro-Pro-Gly-Lys-Pro-Ala-Asp-Asp-Ala-Gly-Leu-Val	

Test	Specification	Result																																																																
Appearance	White powder	conforms																																																																
Solubility	Soluble in H <sub>2</sub> O	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 style="width: 100%; border: none;"> <tr> <td style="width: 100px;">Val</td> <td>0.9-1.1</td> <td style="width: 100px;">Val</td> <td>1.0</td> </tr> <tr> <td>Leu</td> <td>0.9-1.1</td> <td>Leu</td> <td>1.0</td> </tr> <tr> <td>Gly</td> <td>2.7-3.3</td> <td>Gly</td> <td>3.1</td> </tr> <tr> <td>Ala</td> <td>1.8-2.2</td> <td>Ala</td> <td>2.0</td> </tr> <tr> <td>Asp</td> <td>1.8-2.2</td> <td>Asp</td> <td>2.1</td> </tr> <tr> <td>Pro</td> <td>3.6-4.4</td> <td>Pro</td> <td>4.1</td> </tr> <tr> <td>Lys</td> <td>0.9-1.1</td> <td>Lys</td> <td>1.1</td> </tr> <tr> <td>Glu</td> <td>0.9-1.1</td> <td>Glu</td> <td>1.0</td> </tr> </table> <p>No more than the traces of the other amino acids are present.</p>	Val	0.9-1.1	Val	1.0	Leu	0.9-1.1	Leu	1.0	Gly	2.7-3.3	Gly	3.1	Ala	1.8-2.2	Ala	2.0	Asp	1.8-2.2	Asp	2.1	Pro	3.6-4.4	Pro	4.1	Lys	0.9-1.1	Lys	1.1	Glu	0.9-1.1	Glu	1.0	<table style="width: 100%; border: none;"> <tr> <td style="width: 100px;">Val</td> <td>1.0</td> <td style="width: 100px;">Val</td> <td>1.0</td> </tr> <tr> <td>Leu</td> <td>1.0</td> <td>Leu</td> <td>1.0</td> </tr> <tr> <td>Gly</td> <td>3.1</td> <td>Gly</td> <td>3.1</td> </tr> <tr> <td>Ala</td> <td>2.0</td> <td>Ala</td> <td>2.0</td> </tr> <tr> <td>Asp</td> <td>2.1</td> <td>Asp</td> <td>2.1</td> </tr> <tr> <td>Pro</td> <td>4.1</td> <td>Pro</td> <td>4.1</td> </tr> <tr> <td>Lys</td> <td>1.1</td> <td>Lys</td> <td>1.1</td> </tr> <tr> <td>Glu</td> <td>1.0</td> <td>Glu</td> <td>1.0</td> </tr> </table> <p>No more than the traces of the other amino acids are present.</p>	Val	1.0	Val	1.0	Leu	1.0	Leu	1.0	Gly	3.1	Gly	3.1	Ala	2.0	Ala	2.0	Asp	2.1	Asp	2.1	Pro	4.1	Pro	4.1	Lys	1.1	Lys	1.1	Glu	1.0	Glu	1.0
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Glu	1.0	Glu	1.0																																																															
Mass spectrum	1419.6± 1.0	1418.7																																																																
Purity(HPLC)	NLT 98.0%	99.3%																																																																
Acetic acid	NMT 9.0%	1.0%																																																																
Water	NMT 7.0%	3.2 %																																																																
Peptide Content(N%)	NLT80%	94.5%																																																																
Bacterial endotoxins	Less than 10IU/mg	conforms																																																																
Total viable count	NMT 100cfu/g	conforms																																																																
Heavy metal	NMT 10ppm	Conforms																																																																
Residual solvent Methanol Acetonitrile	NMT 3000ppm NMT 410 ppm	conforms																																																																

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Test	Specification	Result
Triethylamine	NMT 320 ppm	conforms

**\*Conclusion is based on routine test results and control of raw materials and processes.**

**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. Used only for research. Not for human use.