

Analytical Data Sheet

Lot number **1000033365**
not for drug use

Product **Pentagastrin**
Boc-β-Ala-Trp-Met-Asp-Phe-NH₂

Product number **4002096.0025**

Molecular formula C₃₇H₄₉N₇O₉S

Relative molecular mass 767.90

Tests	Results															
Appearance	off-white powder															
Appearance of solution	clear, colorless solution (0.5 mg/mL in dimethylformamide)															
Identification (ESI-MS)	m = 767.5u															
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 57.3%</td> <td>C = 57.1%</td> </tr> <tr> <td>H = 6.4%</td> <td>H = 6.4%</td> </tr> <tr> <td>N = 13.0%</td> <td>N = 12.9%</td> </tr> </tbody> </table> <p>calc. x 0.15 H₂O (0.34%) x 0.45 DMF (4.09%)</p>	Theory	Found	C = 57.3%	C = 57.1%	H = 6.4%	H = 6.4%	N = 13.0%	N = 12.9%							
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Amino acid analysis	<table> <tbody> <tr> <td>Asx</td> <td>1.0</td> <td>(1)</td> </tr> <tr> <td>Met</td> <td>1.0</td> <td>(1)</td> </tr> <tr> <td>Trp</td> <td>det.</td> <td>(1)</td> </tr> <tr> <td>Ala</td> <td>1.0</td> <td>(1)</td> </tr> <tr> <td>Phe</td> <td>1.0</td> <td>(1)</td> </tr> </tbody> </table>	Asx	1.0	(1)	Met	1.0	(1)	Trp	det.	(1)	Ala	1.0	(1)	Phe	1.0	(1)
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Met	1.0	(1)														
Trp	det.	(1)														
Ala	1.0	(1)														
Phe	1.0	(1)														
Identification (TLC)	complies with authentic material															
Purity (HPLC)	96.7% (NaClO ₄)															
Purity (TLC)	≥ 98%															
TLC conditions	chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/10/3/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine															
Assay (elemental analysis)	99.5% (Nth 12.77%, Nfd 12.71%)															
Assay (titration)	96.5% (HClO ₄)															
Residual organic solvents (GC)	4.1% dimethylformamide															

Latest update: July 03, 2020

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