

## Analytical Data Sheet

Lot number

**1075703**

not for drug use

Catalog number	A-1130.0100
Product number	4002096.0100
Product	<b>Pentagastrin</b> Boc- β- Ala- Trp- Met- Asp- Phe- NH <sub>2</sub>
Molecular formula	C <sub>37</sub> H <sub>49</sub> N <sub>7</sub> O <sub>9</sub> S
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 H<sub>2</sub>O (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 %
Theory	Found								
C = 57.3 %	C = 57.1 %								
H = 6.4 %	H = 6.4 %								
N = 13.0 %	N = 12.9 %								
Amino acid analysis	Asx 1.0(1) 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 <sub>4</sub> )								
Purity (TLC)	≥ 98%								
TLC conditions	chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/acetic acid/H <sub>2</sub> O 45/13/1/2 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/10/3/4 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.5% (Nth 12.77%, Nfd 12.71%)								
Assay (titration)	96.5% (HClO <sub>4</sub> )								
Residual organic solvents (GC)	4.1% dimethylformamide								

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Latest update: February 15, 2018

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