

## Analytical Data Sheet

Lot number **1000015245**  
not for drug use

**Catalog number** H-4835.0001  
**Product number** 4011474.0001  
**Product** **pTH (1- 34) (human) acetate salt**  
 H- Ser- Val- Ser- Glu- Ile- Gln- Leu- Met- His- Asn- Leu-  
 Gly- Lys- His- Leu- Asn- Ser- Met- Glu- Arg- Val- Glu-  
 Trp- Leu- Arg- Lys- Lys- Leu- Gln- Asp- Val- His- Asn-  
 Phe- OH acetate salt  
**Molecular formula** C<sub>181</sub>H<sub>291</sub>N<sub>55</sub>O<sub>51</sub>S<sub>2</sub>  
**Relative molecular mass** 4117.77

Tests	Results
<b>Appearance</b>	white powder
<b>Identification (MS)</b>	4117.9Da (average mass)
<b>Identification (HPLC)</b>	complies
<b>Amino acid analysis</b>	Asx 4.1 Met 2.1 Lys 3.0 Ser 2.7 Ile 0.9 Arg 1.9 Glx 4.9 Leu 5.1 Trp 1.0 Gly 1.0 Phe 1.0 Val 3.0 His 2.8
<b>Specific optical rotation</b>	$[\alpha]_D^{-25} = -73.6\%$ (c=0.2, 1% HOAc) corrected from anhydrous, acetic acid-free substance
<b>Solubility</b>	clear, colorless solution (0.1% in 1% acetic acid)
<b>Purity (HPLC)</b>	99.1%
<b>Related impurities (HPLC)</b>	0.9% total impurities
<b>Peptide content</b>	90.3% (by CHN)
<b>Residual organic solvents (GC)</b>	acetonitrile 19 ppm isopropanol not det. (< 10 ppm, LOD ) methanol 34 ppm triethylamine 45 ppm total 98 ppm
<b>Mass balance</b>	99.9%
<b>Bacterial endotoxins (LAL test)</b>	< 4.38EU/mg
<b>Microbial limit test</b>	< 10 CFU/g TAMC

**General comment**

Acetate content: 7.9%

Trifluoroacetate content: not detected

Water content: 1.6%

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Latest update: July 15, 2019

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