

## Analytical Data

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**Code:** 4068-s

**Compound:** Parathyroid Hormone (Human, 1-34)  
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  
(M. W. 4117.72) C<sub>181</sub> H<sub>291</sub> N<sub>55</sub> O<sub>51</sub> S<sub>2</sub>

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**Appearance** : White amorphous powder

**\* Specific Optical Rotation**

$[\alpha]_D^{20}$  -71.8 ° (c\* 0.1, 1% AcOH )

\* c value was calculated from the net peptide weight.

**\* Elemental Analysis**

Found C, 49.72 ; H, 7.26 ; N, 16.51 %

**\* Amino Acid Analysis**

Acid Hydrolysis: 6N HCl, with thioglycolic acid, 110°C, 22h.

Asp (4)3.99	Ser (3)2.52	Glu (5)4.93	Gly (1)1.00
Val (3)2.90	Met (2)1.99	Ile (1)0.99	Leu (5)5.00
Phe (1)1.00	His (3)2.92	Lys (3)2.97	NH <sub>3</sub> (5)5.38
Trp (1)0.85	Arg (2)2.00		

**Mass Spectral Analysis** : Exhibits correct MW

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Sample : 4068-s PTH (Human, 1-34)  
Sample Size : 1.0  $\mu$ L ( 0.1 mg/ 20  $\mu$ L- 1% AcOH )  
Column : YMC Pack ODS-A S-3 $\mu$ m (4.6 mm I.D.  $\times$  150 mm) #0415227716(W) + G (4 $\times$ 10 mm)  
Eluent : 0.1M NaCl (pH 2.4)  
Gradient : Acetonitrile 20% to 60% [25 min.]  
Flow Rate : 1.0 mL/min. , ; Press. : 176 kg/cm<sup>2</sup> , ; Temp. : 25 $^{\circ}$ C  
Detection : CH.1 210 nm

