

## Analytical Data

**Code:** 4458-s

**Compound:**  $\alpha$ -Defensin-6 (Human)

Ala-Phe-Thr-Cys-His-Cys-Arg-Arg-Ser-Cys-Tyr-Ser-Thr-Glu-  
Tyr-Ser-Tyr-Gly-Thr-Cys-Thr-Val-Met-Gly-Ile-Asn-His-Arg-  
Phe-Cys-Cys-Leu

(Disulfide bonds: 4-31, 6-20, 10-30)

(M. W. 3708.22) C<sub>156</sub> H<sub>228</sub> N<sub>46</sub> O<sub>46</sub> S<sub>7</sub>

**Appearance** : White amorphous powder

**\* Specific Optical Rotation**

$[\alpha]_D^{20}$  -69.3 ° (c\* 0.09, 1% AcOH)

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

**\* Elemental Analysis**

Found C, 45.47 ; H, 6.37 ; N, 15.21 %

**\* Amino Acid Analysis**

Acid Hydrolysis: 6N HCl, 110°C, 22h.

Asp (1)1.01	Thr (4)3.75	Ser (3)2.63	Glu (1)1.01
Gly (2)2.01	Ala (1)1.01	1/2Cystine (6)5.60	Val (1)1.01
Met (1)0.98	Ile (1)0.99	Leu (1)1.00	Tyr (3)2.87
Phe (2)2.01	His (2)2.01	NH <sub>3</sub> (1)1.88	Arg (3)3.02

**Mass Spectral Analysis** : Exhibits correct MW

Sample : 4458-s  $\alpha$ -Defensin-6 (Human)  
Sample Size : 1.0  $\mu$ L ( 0.1 mg/ 20  $\mu$ L-1% AcOH )  
Column : YMC Pack ODS-A (4.6 mm I.D.  $\times$  150 mm) #0415227715(W) + G (4 $\times$ 10 mm)  
Eluent : 0.1M NaCl (pH 2.4)  
Gradient : Acetonitrile 10% to 60% [25 min.]  
Flow Rate : 1.0 mL/min. , ; Press. : 148 kg/cm<sup>2</sup> , ; Temp. : 25  $^{\circ}$ C  
Detection : CH. 1 210 nm

