

Analytical Data

Code: 3404-v

Compound: 4-[D10]Leu-Insulin (Human) (Trifluoroacetate Form)

A-chain:

Gly-Ile-Val-Glu-Gln-Cys-Cys-Thr-Ser-Ile-

Cys-Ser-Leu-Tyr-Gln-Leu-Glu-Asn-Tyr-Cys-Asn

B-chain:

Phe-Val-Asn-Gln-His-[²H₁₀]Leu-Cys-Gly-Ser-His-[²H₁₀]Leu-Val-Glu-Ala-

[²H₁₀]Leu-Tyr-[²H₁₀]Leu-Val-Cys-Gly-Glu-Arg-Gly-Phe-Phe-Tyr-Thr-Pro-Lys-Thr

(Disulfide bonds between Cys^{A6}-Cys^{A11}, Cys^{A7}-Cys^{B7} and Cys^{A20}-Cys^{B19})

(M. W. 5847.82)

Appearance : White amorphous powder

*** Amino Acid Analysis**

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

Asp (3) 2.96	Thr (3) 2.84	Ser (3) 2.68	Glu (7) 6.83
Pro (1) 1.02	Gly (4) 3.90	Ala (1) 0.98	1/2Cystine (6) 4.00
Val (4) 3.50**	Ile (2) 1.49**	Leu (6) 6.03	Tyr (4) 4.00
Phe (3) 2.97	His (2) 1.99	Lys (1) 1.00	NH ₃ (6) 8.08
Arg (1) 1.00			

** resistance of the Ile-Val bond to acid hydrolysis.

Sample : 3404-v 4-[D10]Leu-Insulin (Human)
Sample Size : 5.0 μ L (24 μ g/ 24 μ L- 1% AcOH)
Column : YMC Pack ODS-A S-3 μ m (4.6 mm I.D. \times 150 mm) #0415227716(W) + G(4 \times 10mm)
Eluent : 0.1M NaCl (pH2.4)
Gradient : Acetonitrile 20% to 60% [25 min.]
Flow Rate : 1.0 mL/min. , ; Press. : 164 kg/cm² , ; Temp. : 25 $^{\circ}$ C
Detection : CH.1 210 nm

