

CERTIFICATE OF ANALYSIS

Product Name: Fmoc-L-Tyr(tBu)-OH
CAS No.: 71989-38-3
Lot No.: A26518
Molecular Formula: C₂₈H₂₉NO₅
Molecular Weight: 459.5
Manufacturing Date: July 10, 2004.
Prolonged Storage: <25 °C

| Tests | Specifications | Results |
|---|--|----------------|
| Appearance | White to off white powder | White powder |
| Purity(HPLC) | ≥98.0% | 99.5% |
| Specific Rotation[α] _D ²⁰ | -28.5° ± 2.5° (C=5% in CHCl ₃) | -28.6° |
| Optical Purity | < 0.5 % D-enantiomer | 0.3 % |
| TLC | Purity ≥98% | >99% |
| Solubility | 1 mmole in 2 ml DMF clearly soluble | Clear solution |

Quality control (seal):

Sample Name: Fmoc-L-Tyr(tBu)-OH

Vial Number: 30

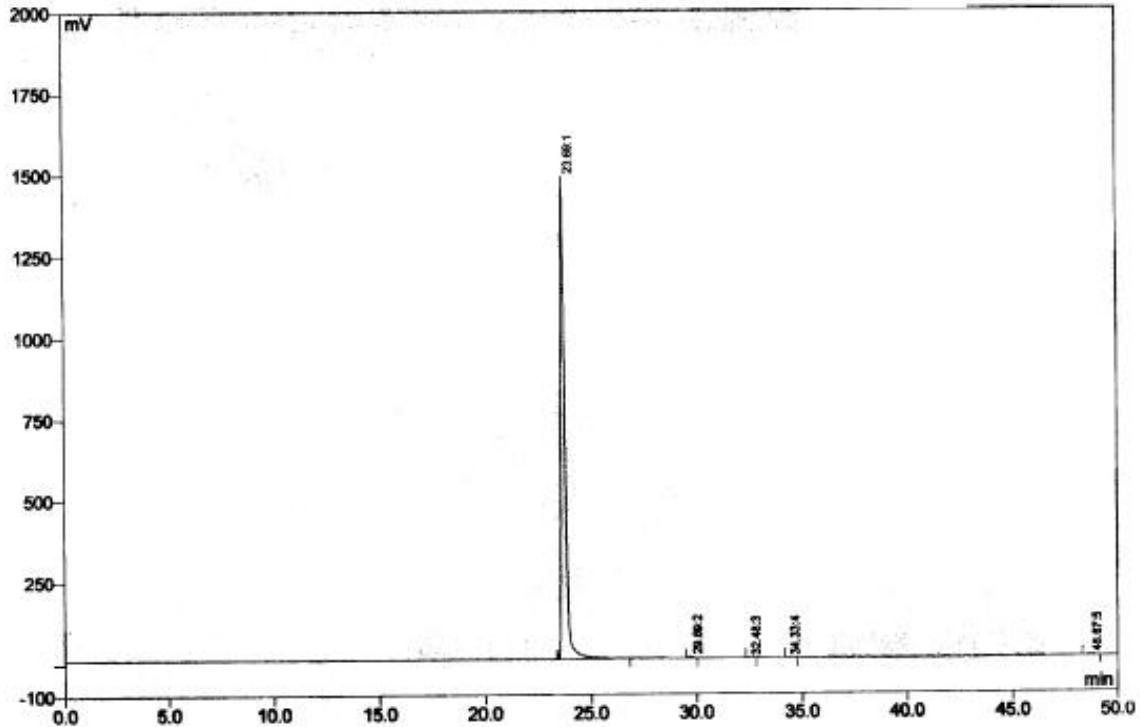
Sample Description: 04-12-1037 A26518,

Application: Fmoc0107

Analyzed: 07.01.04 11:30

Processed: 07.01.04 17:18

Reported: 07.01.04 17:18



Acquisition Method: Fmoc
 Processing Method: Fmoc
 Column Type: MNNucleosil C18HD 125×3mm 100-3
 Solvent A: TEAP 0.05 M pH 2.25
 Solvent B: Eluent A + ACN(10/90)
 Gradient: 35-95% B in 35 min
 Flow: 0.8ml/min
 Detection: UV 215nm
 Temp: 30 °C
 Volume: 5,0ul

| No. | Ret.Time min | Type | Area % | Height mV |
|-----|-----------------|------|--------|--------------|
| 1 | 23.69 | MLR | 99.05 | 1484.18 |
| 2 | 29.69 | MLR | 0.37 | 5.97 |
| 3 | 32.48 | MLR | 0.12 | 1.83 |
| 4 | 34.33 | MLR | 0.17 | 2.69 |
| 5 | 48.67 | MLR | 0.29 | 2.89 |
| | | | 100.00 | 1497.56 |

Peak rejection level:10000