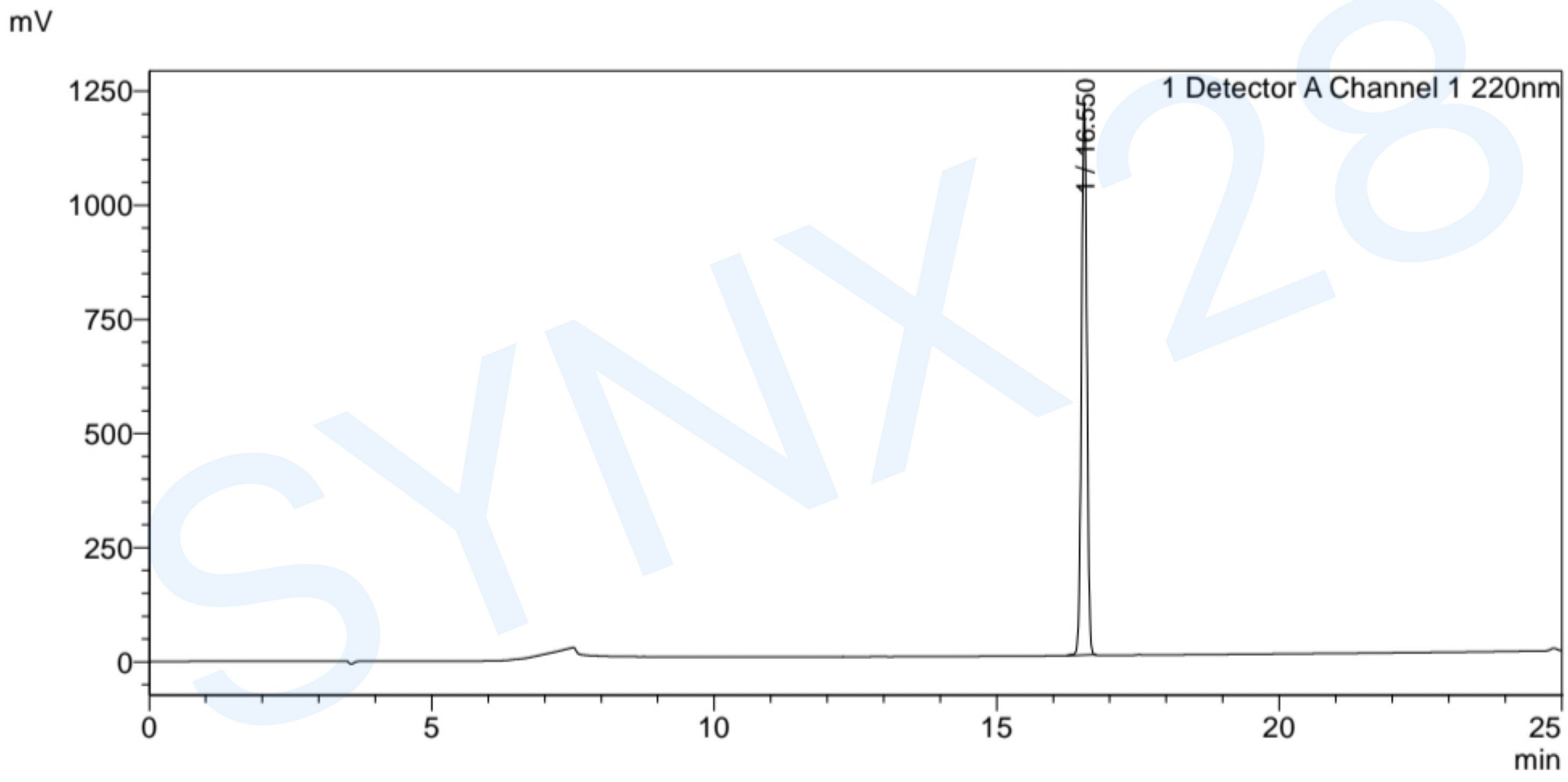
Sample Name:Melanotan 2 10mg
Sample ID : SYNX28
Time Processed: 17:51:09
Month-Day-Year Processed :05/28/2026

Pump A : 0.065% trifluoroacetic in 100% water (v/v)
Pump B : 0.05% trifluoroacetic in 100% acetonitrile (v/v)
Total Flow:1 ml/min
Wavelength:220 nm
<<LC Time Program>>

| Time | Module | Command | Value |
|---|---|---|---|
| 0.01 | Pumps | B.Conc | 5 |
| 25.00 | Pumps | B.Conc | 65 |
| 25.01 | Pumps | B.Conc | 95 |
| 27.00 | Pumps | B.Conc | 95 |
| 27.01 | Pumps | B.Conc | 5 |
| 35.00 | Pumps | B.Conc | 5 |
| 35.00 | Controller | Stop | |

<<Column Performance>>
<Detector A>
Column : Inertsil ODS-SP 4.6 x 250 mm
Equipment:ZJ19010014

## <Chromatogram>




## <Peak Table>

Detector A Channel 1 220nm

| Peak# | Ret. Time | Area | Height | Area% |
|---|---|---|---|---|
| 1 | 16.550 | 8001422 | 1210844 | 100.000 |
| Total | | 8001422 | 1210844 | 100.000 |

SYNX28

Confidential and Privileged

# Peptide Content Report

Sample Name:Melanotan 2 10mg

Sample ID:SYNX 28
Date Processed(MM/DD/YYYY):05/30/2026
Instrument: Thermo Fisher Flash Smart Elemental Analyzer

Result of detecting

| Times | N/% |
|---|---|
| Avg. | 5.64 |

Calculation Method:

The net peptide content/%=N/%*MW(peptide)/(n*MW(nitrogen))

N/%:Nitrogen content determined by elemental analysis;
MW(peptide): Theoretical Molecular Weight;
n: The number of nitrogen element;
MW (nitrogen): atomic weight(nitrogen);

Result of analyzing

| Times | N/% | The net peptide content/ % |
|---|---|---|
| Avg. | 5.64 | (5.64*1024.2)/(15*14)=27.51 |
| | | |
| Avg. | The net peptide content/ %=27.51 | |

Gross Weight:65mg
Net Weight:65*27.51=17.9mg

SYNX 28

# The Qualitative Detection of Endotoxin

**Sample Name : Melanotan 2 10mg**

**Sample ID: SYNX 28**

**Da te Processed{MM/ DD/YYYY) :05/31/2026**

**{Sample ID final concentration 1 mg/ml)**

**LAL sensitivity: 0.05EU/ml**

**Sample Endotoxin level:**

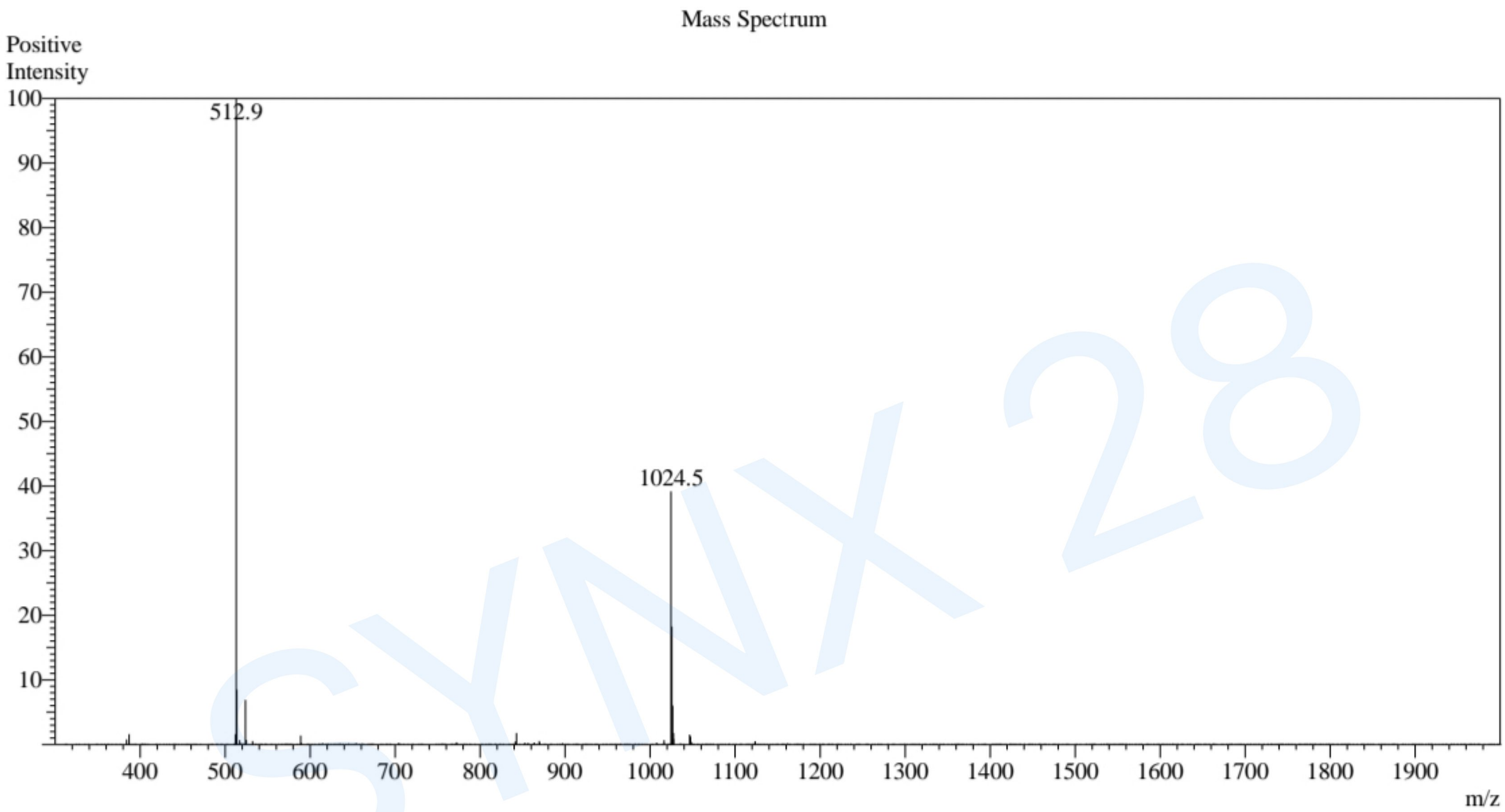
**1. The endotoxin level in sample was detected using Horseshoe Crab Rea gent, the phenomenon is listed as followed:**

Table 1:

| Inspection tube | 0.1ml LAL+0.1ml LAL Reagent Water+0.1ml Detection solution | Parallel | |
|---|---|---|---|
| | | 1 | 2 |
| Sample | 0.1ml LAL+0.1ml LAL Reagent Water+0.1ml Sample solution | - | - |
| Sample positive control | 0.1ml LAL+0.1ml LAL Reagent Water+0.1ml 2 λSample positive solution | + | + |
| Positive control | 0.1ml LAL+0.1ml LAL Reagent Water+0.1ml positive solution | + | + |
| Negative control | 0.1ml LAL+0.1ml LAL Reagent Water+0.1ml LAL Reagent Water | - | - |

**Note: The test result is positive which expressed by"+", and negative is expressed by"—".**
**2. Result:**
**The endotoxin level in sample is: <0.05EU/mg**

SYNX 28




Sample Information

| | |
|---|---|
| Month-Day Processed : | 05/28/26 |
| Time Processed : | 22:21:56 |
| Injection Volume : | 0.4 |
| Sample Name : | Melanotan 2 10mg |
| Sample ID : | SYN28 |
| Theoretical MW : | 1024.2 |
| Observed MW : | 1023.8 |

| | |
|---|---|
| Interface | :ESI |
| Nebulizing Gas Flow | :1.5L/min |
| CDL Temp | :250 |
| Block Temp | :200 |

| | |
|---|---|
| Equipment | : ZJ17010408 |
| Interface Bias | : +4.5 kV |
| Drying Gas Flow | :5 L/min |
| T.Flow | :0.2 ml/min |
| B.conc | :50%H2O/50%MeOH |

SYN 28