

# Certificate Of Analysis



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## Sample Identification

|                    |                   |                     |                   |                       |                  |
|--------------------|-------------------|---------------------|-------------------|-----------------------|------------------|
| <b>Sample Name</b> | Melanotan 1 10 mg | <b>Batch Number</b> | Melanotan/ 100-01 | <b>Date Published</b> | 2026-02-16 17:13 |
|--------------------|-------------------|---------------------|-------------------|-----------------------|------------------|

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## Results for Lyo-0290

| <b>Analysis of Peptide Identity, Content and Purity</b>        | <b>Result</b> | <b>Unit</b> | <b>Uncertainty</b> | <b>Reporting Limit</b> |
|----------------------------------------------------------------|---------------|-------------|--------------------|------------------------|
| Melanotan 1 Assay<br>Peptide Screening                         | 31.9          | mg          | [± 0.2]            |                        |
| Melanotan 1 Identification<br>by RT<br>Peptide Screening       | 0.986         |             | [± 0.005]          |                        |
| Melanotan 1 Identification<br>by spectrum<br>Peptide Screening | 996           |             | [± 20]             |                        |
| Melanotan 1 Purity<br>Peptide Screening                        | > 99.8        | %           |                    |                        |

# Attachments for Lyo-0290

|                                                                                   |                                 |                             |
|-----------------------------------------------------------------------------------|---------------------------------|-----------------------------|
|  | <b>Method Specification</b>     |                             |
| <b>Determination of identity, content and purity of Melanotan I</b>               |                                 |                             |
| <i>Document number</i><br>MT1_001_2026                                            | <i>Superseded document</i><br>- | <i>Number of pages</i><br>3 |

## 1. Content Assessment

### 1.1. Instrumentation

| Module            | Name                | Serial Number |
|-------------------|---------------------|---------------|
| System Controller | Shimadzu SCL-10ADvp | C21014112659  |
| Degassing Unit    | Shimadzu DGU-14A    | NA            |
| Pump A            | Shimadzu LC-10ADvp  | C20964130075  |
| Pump B            | Shimadzu LC-10ADvp  | C20953770781  |
| Autosampler       | Shimadzu SIL-10ADvp | C21054109114  |
| Column Thermostat | Shimadzu CTO-10ACvp | C21033770144  |
| Detector          | Shimadzu SPD-10ADvp | C20994233588  |

### 1.2. Chromatographic conditions

| Chromatographic conditions |                                                    |
|----------------------------|----------------------------------------------------|
| Eluent A                   | 0.1% TFA in Water (HPLC, Gradient Grade)           |
| Eluent B                   | 0.1% TFA in Acetonitrile (HPLC, Gradient Grade)    |
| Flow rate                  | 0.4 mL/min                                         |
| Program                    | Gradient elution                                   |
| Injection volume           | 0.5 µL                                             |
| Column Temperature         | 60°C                                               |
| Column                     | Phenomenex Biozen Peptide Polar C18, 150x2.1mm 3µm |
| Detection wavelength       | 280nm                                              |

| Gradient Program |       |       |
|------------------|-------|-------|
| Time [min]       | A [%] | B [%] |
| 3                | 95    | 5     |
| 25.5             | 5     | 95    |
| 26               | 5     | 95    |
| 28               | 95    | 5     |
| 35               | end   |       |

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Attachment for Lyo-0290

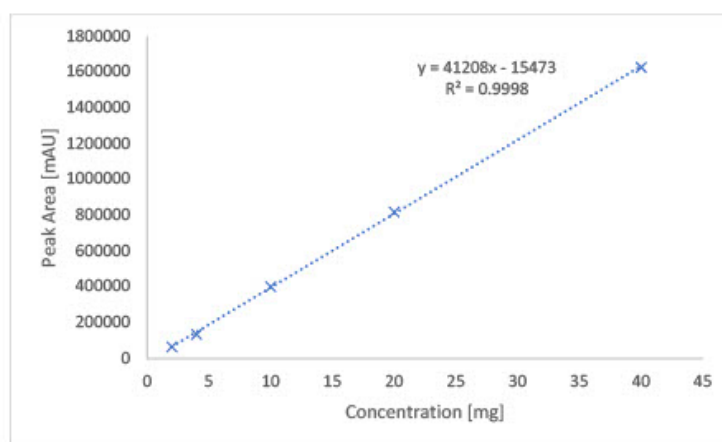
Filename: 1771260400204-d945374b-440f-46b4-a38c-6bb9c05aad6b\_1.jpg

### 1.3. Sample preparation

Whole amount of container was dissolved in 2mL of water (HPLC, Gradient Grade). Aliquote part of 1 mL was dispensed into HPLC vial for analysis.

### 1.4. Calibration curve

| Calibration curve detail     |                   |
|------------------------------|-------------------|
| Quantitative method          | External Standard |
| Calibration Type             | Linear            |
| Number of calibration points | 5                 |
| Force through Zero           | Disabled          |
| Weighting Method             | None              |



## 2. Purity assessment

### 2.1 Instrumentation

| Module            | Name                | Serial Number |
|-------------------|---------------------|---------------|
| System Controller | Shimadzu SCL-10ADvp | C21014112659  |
| Degassing Unit    | Shimadzu DGU-14A    | NA            |
| Pump A            | Shimadzu LC-10ADvp  | C20964130075  |
| Pump B            | Shimadzu LC-10ADvp  | C20953770781  |
| Autosampler       | Shimadzu SIL-10ADvp | C21054109114  |
| Column Thermostat | Shimadzu CTO-10ACvp | C21033770144  |
| Detector          | Shimadzu SPD-10ADvp | C20994233588  |

### 2.2 Chromatographic conditions

| Chromatographic conditions |                                                    |
|----------------------------|----------------------------------------------------|
| Eluent A                   | 0.1% TFA in Water (HPLC, Gradient Grade)           |
| Eluent B                   | 0.1% TFA in Acetonitrile (HPLC, Gradient Grade)    |
| Flow rate                  | 0.4 mL/min                                         |
| Program                    | Gradient elution                                   |
| Injection volume           | 0.5 µL                                             |
| Column Temperature         | 60°C                                               |
| Column                     | Phenomenex Biozen Peptide Polar C18, 150x2.1mm 3µm |
| Detection wavelength       | 214nm                                              |

| Gradient Program |       |       |
|------------------|-------|-------|
| Time [min]       | A [%] | B [%] |
| 3                | 95    | 5     |
| 25.5             | 5     | 95    |
| 26               | 5     | 95    |
| 28               | 95    | 5     |
| 35               | end   |       |

### 1.5. Sample preparation

Whole amount of container was dissolved in 2mL of water (HPLC, Gradient Grade). Aliquote part of 1 mL was dispensed into HPLC vial for analysis.

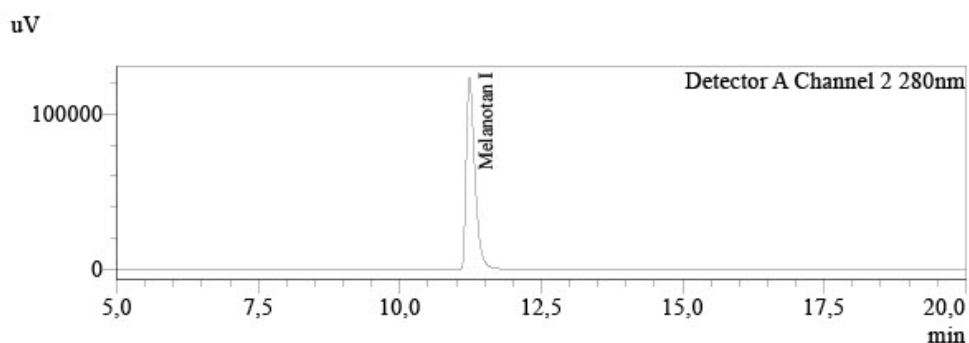
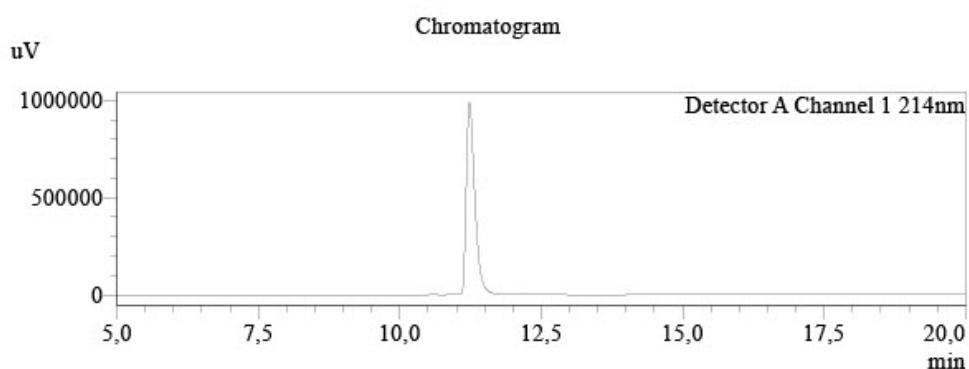
### 1.6. Purity assesment

Purity of compound assesed by area normalization method, comparing area of each peak to sum of area of all peaks detected at wavelenght of 214 nm.

# Analysis Report



**Sample Information**  
 Injection Volume : 0,5  
 Data File : LYO-0290\_008.lcd  
 Method File : Peptide screening\_Group B.lcm  
 Date Acquired : 14.02.2026 1:05:07



Peak Table

| Peak# | Name | Ret. Time | Conc. | Unit | Area%   |
|-------|------|-----------|-------|------|---------|
| 1     |      | 10.543    | 0.000 |      | 0.036   |
| 2     |      | 11.233    | 0.000 |      | 99.822  |
| 3     |      | 12.103    | 0.000 |      | 0.142   |
| Total |      |           |       |      | 100.000 |

Peak Table

| Peak# | Name        | Ret. Time | Conc.  | Unit |
|-------|-------------|-----------|--------|------|
| 1     | Melanotan I | 11.233    | 31.939 | mg   |
| Total |             |           |        |      |

Attachment for Lyo-0290  
 Filename: LYO-0290.jpg

## Responsibles



**Mr. Ján Galbavý**  
Founder/Manager

Analysis results relate only to the samples tested.

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