

# Certificate of Analysis

## Specifications

|                     |                    |
|---------------------|--------------------|
| Net peptide content | Nitrogen analysis  |
| Purity Test         | HPLC               |
| Molecular Weigh     | MS                 |
| Endotoxin           | Endotoxin Analysis |

## Sample Summary

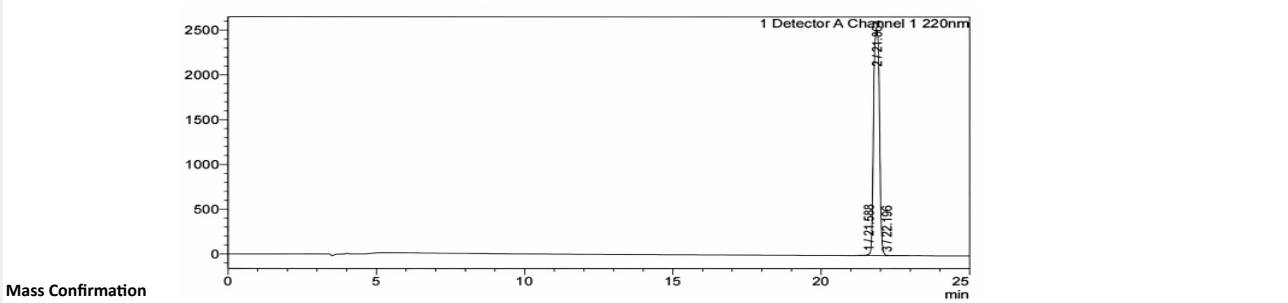
|             |                          |  |
|-------------|--------------------------|--|
| Product:    | TR10                     |  |
| Identity:   | Confirmed                |  |
| Appearance: | White Lyophilized Powder |  |
| LotNo.      | N/A                      |  |
| Reported:   | 2026.7.10                |  |

## Analytical Results

| Test                             | Result  |
|----------------------------------|---------|
| Identity (LC-MS)                 | N/A     |
| Purity (HPLC-UV)                 | 99.77%  |
| Net Content                      | 12.98mg |
| The endotoxin level in sample is | N/A     |

Method: HPLC with UV detection coupled with mass spectrometry (LC-MS).

Chromatogram



|           |                     |                 |
|-----------|---------------------|-----------------|
| Tested by | Miss.XieYuJing , QC | Date:2026/07/11 |
| Tested by | Miss.ZhangBo , QC   | Date:2026/07/11 |

The peptide purity analysis reported here was conducted using LCMS/MS under standard laboratory conditions. The net peptide content stated in this report is determined via nitrogen quantification using an elemental analyzer. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The peptides tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables.

# Test Conditions

## HPLC

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     |
| 35.01 | Controller | Stop    |       |

<<Column Performance>>

<Detector A>

Column : Inertsil ODS-SP 4.6 x 250 mm

Equipment: ZJ19010014

## MS

Interface : ESI  
Nebulizing Gas Flow : 1.5 L/min  
CDL Temp : 250°C  
Block Temp : 200°C

Equipment : ZJ17010408  
Interface Bias : +4.5 kV  
Drying Gas Flow : 5 L/min  
T.Flow : 0.2 ml/min  
B.conc : 50% H<sub>2</sub>O/50% MeOH

# Endotoxin

LAL sensitivity: 0.02EU/ml

Sample Endotoxin level:

1. The endotoxin level in sample was detected using Horseshoe Crab Reagent, 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           | -        | - |

# Nitrogen analysis

Calculation Method:

The net peptide content/%= $N\% \times MW(\text{peptide}) / (n \times MW(\text{nitrogen}))$

N%: Nitrogen content determined by elemental analysis;

MW(peptide): Theoretical Molecular Weight;

n: The number of nitrogen element;

MW (nitrogen): atomic weight(nitrogen);