

# Certificate of Analysis

**Grail Formula Health B.V.**

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## Sample Identification

**Sample Name** Taurine 500 mg  
**Batch Number** 27364  
**Date Published** 2026-05-26 10:48

## Results for ORAL-0010

| Vitamins                                                                            | Result  | Unit           | Uncertainty | Acceptable Range |
|-------------------------------------------------------------------------------------|---------|----------------|-------------|------------------|
| Capsule Mass<br>Polar Compound Screening 10mM<br>ammonium formate buffer            | 553.0   | mg             | [± 11.1]    |                  |
| Elemental Impurities                                                                | Result  | Unit           | Uncertainty | Acceptable Range |
| Arsenic<br>Elemental Impurities screening USP<br>(232) / Ph. Eur. 5.20 / 2.4.20     | < 0.001 | ppm            |             |                  |
| Cadmium<br>Elemental Impurities screening USP<br>(232) / Ph. Eur. 5.20 / 2.4.20     | < 0.001 | ppm            |             |                  |
| Quicksilver<br>Elemental Impurities screening USP<br>(232) / Ph. Eur. 5.20 / 2.4.20 | < 0.001 | ppm            |             |                  |
| Lead<br>Elemental Impurities screening USP<br>(232) / Ph. Eur. 5.20 / 2.4.20        | < 0.001 | ppm            |             |                  |
| Supplements                                                                         | Result  | Unit           | Uncertainty | Acceptable Range |
| Taurine Assay<br>Polar Compound Screening 10mM<br>ammonium formate buffer           | 506.91  | mg/<br>capsule | [± 25.35]   |                  |

|                                                                                   |                                 |                             |  |
|-----------------------------------------------------------------------------------|---------------------------------|-----------------------------|--|
|  | <b>Method Specification</b>     |                             |  |
| <b>Determination of Taurine content in capsules</b>                               |                                 |                             |  |
| <i>Document number</i><br><b>TAU_005_2026</b>                                     | <i>Superseded document</i><br>- | <i>Number of pages</i><br>2 |  |

## 1. Content Assesment

### 1.1. Instrumentation

| Module            | Name                 | Serial Number |
|-------------------|----------------------|---------------|
| System Controller | Shimadzu CBM-40 Lite | L221226351398 |
| Degassing Unit    | Shimadzu DGU-403     | NA            |
| Pump              | Shimadzu LC-40B XR   | L22146350580  |
| Autosampler       | Shimadzu SIL-40C XR  | L22216351622  |
| Colum Thermostat  | Shimadzu CTO-40S     | L22236351602  |
| PDA Detector      | Shimadzu SPD-M40     | L22276352808  |
| SQ MS Detector    | Shimadzu LCMS-2050   | O12476200760  |

### 1.2. Chromatographic conditions

| Chromatographic conditions |                                                        |
|----------------------------|--------------------------------------------------------|
| Eluent A                   | 0.1% Formic Acid in 10mM Acetonitrile Ammonium Formate |
| Eluent B                   | 0.1% Formic acid in 10mM Aqueous Ammonium Formate      |
| Flow rate                  | 1 mL/min                                               |
| Program                    | Gradient elution                                       |
| Injection volume           | 5 µL                                                   |
| Colum Temperature          | 40°C                                                   |
| Column                     | Phenomenex Biozen Luna NH2, 150x3mm 3µm                |
| MS Detection               | -124.01 Da                                             |

| Gradient Program |       |       |
|------------------|-------|-------|
| Time [min]       | A [%] | B [%] |
| 1                | 100   | 0     |
| 10.00            | 5     | 95    |
| 11.00            | 5     | 95    |
| 11.01            | 100   | 0     |
| 13               | end   |       |

### 1.3. Standard preparation

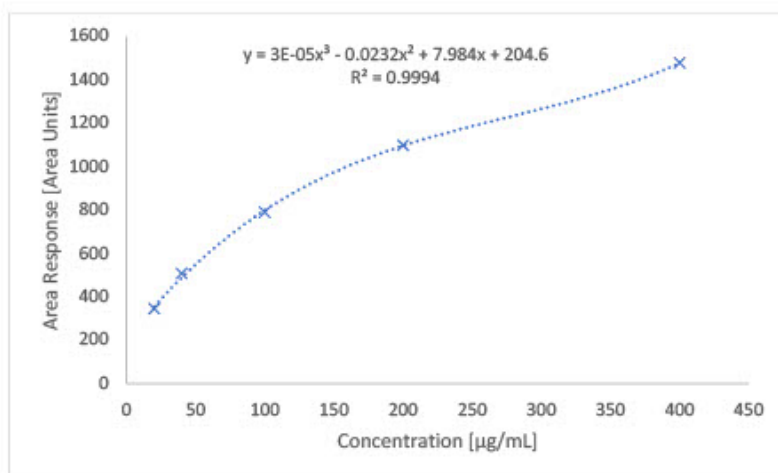
Approximately 50 mg of Taurine (CRM, Pure) was weighed and exact mass used was recorded. Whole amount of standard was quantitatively transferred to volumetric flask and dissolved using ultrasonic bath. After full dissolution, flask was filled up to mark by water (HPLC, Gradient Grade) and well mixed. Standard solution was diluted in mobile phase A solution to concentration 10 µg/mL and placed for analysis.

### 1.4. Sample preparation

Whole content of capsule was weighed and exact mass of capsule filling was recorded. Capsule filling was quantitatively transferred to 50 mL volumetric flask and dissolved in water (LCMS, Gradient Grade) in ultrasonic bath. Volumetric flask was then filled up to mark by water (LCMS, Gradient Grade) and mixed well. 5 mL of solution was transferred to centrifuge vial and centrifuged at 3000G for 3 minutes to remove undissolved particles. 10 µL of this solution was transferred to 990 µL of mobile phase A and placed for analysis.

### 1.5. Calibration curve

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

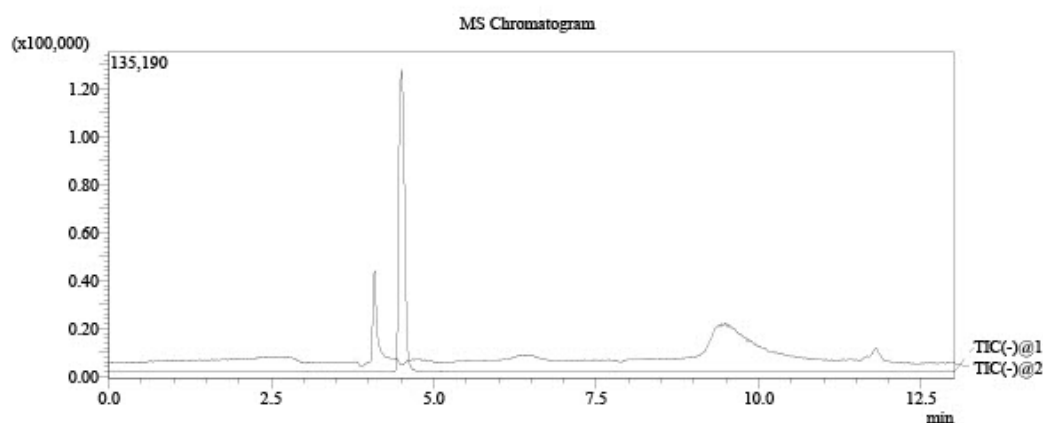


# Analysis Report



## Sample Information

Injection Volume : 5  
Data File : Oral-0010\_001.lcd  
Method File : NH2\_HILIC.lcm  
Date Acquired : 5/25/2026 10:12:21 AM



MS Quantitative Table

| Name    | Ret. Time | m/z    | Conc.   | Unit    |
|---------|-----------|--------|---------|---------|
| Taurine | 4.504     | 124.01 | 506.913 | mg/CAPS |

## Responsibles



**Mr. Ján Galbavý**  
*CEO*

Analysis results relate only to the samples tested.

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