

**NATIONAL FOOD AND  
VETERINARY RISK ASSESSMENT  
INSTITUTE**

**TEST REPORT No. 1-25/00854/1-8 M**

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**Date of receipt of sample (s):** 2025-01-14

**End date of test  
performance:** 2025-01-29

**Customer data:**

Name and address of the customer: JSC Ltd. Lithempa, Rukaičiai village 1, Joniškis district, rokas@lithempa.com

Description of sample (s):

1. Calcium alpha-ketoglutarate, 70 g. Production date 2024-06-14, valid for 2 years. Identification No. LBC240614.
2. Theanine, 70 g. Production date 2024-06-01, valid for 2 years. Identification No. 202409601.
3. L-theanine, 70 g. Production date 2024-07-11, valid for 2 years. Identification No. HHLT240711.
4. Magnesium L-threonate, 70 g. Production date 2024-03-24, valid for 2 years. Identification No. HHM240324.
5. Creatine monohydrate, 70 g. Production date 2024-12-02, valid for 2 years. Identification No. 20241202.
6. Urolithin A, 70 g. Production date 2023-10-29, valid for 2 years. Identification No. C00252-241001.
7. Epigallocatechin gallate, 70 g. Production date 2024-08-18, valid for 2 years. Identification No. HHG240818.
8. Spermidine trihydrochloride, 70 g. Production date 2024-06-11, valid for 2 years. Identification No. HHS240611.

Sampling procedure\*\*: Statement, 2025-01-10. Attorney A.Ramanauskaitė  
Sample (s) delivered by: R.Šliupas

**TEST RESULTS**

| Sample No.                                                   | 1                                              |                                                        |
|--------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------|
| Aerobic microorganisms count at 30°C, 1 g                    | $< 1,0 \times 10^1$<br>[0; $7,8 \times 10^1$ ] | LST EN ISO 4833-1:2013; LST EN ISO 4833-1:2013/A1:2022 |
| Sulphite-reducing anaerobic bacteria count at 37 °C, 1 g     | $< 1,0 \times 10^1$<br>[0; $7,1 \times 10^1$ ] | LST EN ISO 15213-1:2023                                |
| Coliforms count at 30°C, 1 g                                 | $< 1,0 \times 10^1$<br>[0; $7,1 \times 10^1$ ] | LST ISO 4832:2006                                      |
| Most probable presumptive <i>Escherichia coli</i> count, 1 g | 0<br>[0; 3,0]                                  | LST ISO 7251:2006; LST ISO 7251:2005/A1:2024           |

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|-----------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------|
| Yeasts count, 1 g                                                                             | $< 1,0 \times 10^1$<br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Moulds count, 1 g                                                                             | $< 1,0 \times 10^1$<br>[0; 7,6 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) count, 1 g | $< 1,0 \times 10^1$<br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 6888-1:2021; LST EN ISO 6888-1:2021/A1:2023     |
| <i>Bacillus cereus</i> group count, 1 g                                                       | $< 1,0 \times 10^1$<br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 7932:2005 (except LST EN ISO 7932:2005/A1:2020) |
| <i>Salmonella</i> spp. detection, 25 g                                                        | not detected                                       | LST EN ISO 6579-1:2017; LST EN ISO 6579-1:2017/A1:2020     |

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|-----------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------|
| Sample No.                                                                                    | 2                                                  |                                                            |
| Aerobic microorganisms count at 30°C, 1 g                                                     | $< 1,0 \times 10^1$<br>[0; 7,8 x 10 <sup>1</sup> ] | LST EN ISO 4833-1:2013; LST EN ISO 4833-1:2013/A1:2022     |
| Sulphite-reducing anaerobic bacteria count at 37 °C, 1 g                                      | $< 1,0 \times 10^1$<br>[0; 7,1 x 10 <sup>1</sup> ] | LST EN ISO 15213-1:2023                                    |
| Coliforms count at 30°C, 1 g                                                                  | $< 1,0 \times 10^1$<br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 4832:2006                                          |
| Most probable presumptive <i>Escherichia coli</i> count, 1 g                                  | 0<br>[0; 3,0]                                      | LST ISO 7251:2006; LST ISO 7251:2005/A1:2024               |
| Yeasts count, 1 g                                                                             | $< 1,0 \times 10^1$<br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Moulds count, 1 g                                                                             | $< 1,0 \times 10^1$<br>[0; 7,6 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) count, 1 g | $< 1,0 \times 10^1$<br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 6888-1:2021; LST EN ISO 6888-1:2021/A1:2023     |
| <i>Bacillus cereus</i> group count, 1 g                                                       | $< 1,0 \times 10^1$<br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 7932:2005 (except LST EN ISO 7932:2005/A1:2020) |
| <i>Salmonella</i> spp. detection, 25 g                                                        | not detected                                       | LST EN ISO 6579-1:2017; LST EN ISO 6579-1:2017/A1:2020     |

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|-----------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------|
| Sample No.                                                                                    | 3                                                      |                                                            |
| Aerobic microorganisms count at 30°C, 1 g                                                     | < 1,0 x 10 <sup>1</sup><br>[0; 7,8 x 10 <sup>1</sup> ] | LST EN ISO 4833-1:2013; LST EN ISO 4833-1:2013/A1:2022     |
| Sulphite-reducing anaerobic bacteria count at 37 °C, 1 g                                      | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST EN ISO 15213-1:2023                                    |
| Coliforms count at 30°C, 1 g                                                                  | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 4832:2006                                          |
| Most probable presumptive <i>Escherichia coli</i> count, 1 g                                  | 0<br>[0; 3,0]                                          | LST ISO 7251:2006; LST ISO 7251:2005/A1:2024               |
| Yeasts count, 1 g                                                                             | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Moulds count, 1 g                                                                             | < 1,0 x 10 <sup>1</sup><br>[0; 7,6 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) count, 1 g | < 1,0 x 10 <sup>1</sup><br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 6888-1:2021; LST EN ISO 6888-1:2021/A1:2023     |
| <i>Bacillus cereus</i> group count, 1 g                                                       | < 1,0 x 10 <sup>1</sup><br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 7932:2005 (except LST EN ISO 7932:2005/A1:2020) |
| <i>Salmonella</i> spp. detection, 25 g                                                        | not detected                                           | LST EN ISO 6579-1:2017; LST EN ISO 6579-1:2017/A1:2020     |

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| Sample No.                                                                                    | 4                                                      |                                                            |
| Aerobic microorganisms count at 30°C, 1 g                                                     | < 1,0 x 10 <sup>1</sup><br>[0; 7,8 x 10 <sup>1</sup> ] | LST EN ISO 4833-1:2013; LST EN ISO 4833-1:2013/A1:2022     |
| Sulphite-reducing anaerobic bacteria count at 37 °C, 1 g                                      | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST EN ISO 15213-1:2023                                    |
| Coliforms count at 30°C, 1 g                                                                  | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 4832:2006                                          |
| Most probable presumptive <i>Escherichia coli</i> count, 1 g                                  | 0<br>[0; 3,0]                                          | LST ISO 7251:2006; LST ISO 7251:2005/A1:2024               |
| Yeasts count, 1 g                                                                             | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Moulds count, 1 g                                                                             | < 1,0 x 10 <sup>1</sup><br>[0; 7,6 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) count, 1 g | < 1,0 x 10 <sup>1</sup><br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 6888-1:2021; LST EN ISO 6888-1:2021/A1:2023     |
| <i>Bacillus cereus</i> group count, 1 g                                                       | < 1,0 x 10 <sup>1</sup><br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 7932:2005 (except LST EN ISO 7932:2005/A1:2020) |

|                                        |              |                                                        |
|----------------------------------------|--------------|--------------------------------------------------------|
| <i>Salmonella</i> spp. detection, 25 g | not detected | LST EN ISO 6579-1:2017; LST EN ISO 6579-1:2017/A1:2020 |
|----------------------------------------|--------------|--------------------------------------------------------|

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|-----------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------|
| Sample No.                                                                                    | 5                                                  |                                                            |
| Aerobic microorganisms count at 30°C, 1 g                                                     | $< 1,0 \times 10^1$<br>[0; 7,8 x 10 <sup>1</sup> ] | LST EN ISO 4833-1:2013; LST EN ISO 4833-1:2013/A1:2022     |
| Sulphite-reducing anaerobic bacteria count at 37 °C, 1 g                                      | $< 1,0 \times 10^1$<br>[0; 7,1 x 10 <sup>1</sup> ] | LST EN ISO 15213-1:2023                                    |
| Coliforms count at 30°C, 1 g                                                                  | $< 1,0 \times 10^1$<br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 4832:2006                                          |
| Most probable presumptive <i>Escherichia coli</i> count, 1 g                                  | 0<br>[0; 3,0]                                      | LST ISO 7251:2006; LST ISO 7251:2005/A1:2024               |
| Yeasts count, 1 g                                                                             | $< 1,0 \times 10^1$<br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Moulds count, 1 g                                                                             | $< 1,0 \times 10^1$<br>[0; 7,6 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) count, 1 g | $< 1,0 \times 10^1$<br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 6888-1:2021; LST EN ISO 6888-1:2021/A1:2023     |
| <i>Bacillus cereus</i> group count, 1 g                                                       | $< 1,0 \times 10^1$<br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 7932:2005 (except LST EN ISO 7932:2005/A1:2020) |
| <i>Salmonella</i> spp. detection, 25 g                                                        | not detected                                       | LST EN ISO 6579-1:2017; LST EN ISO 6579-1:2017/A1:2020     |

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|-----------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|
| Sample No.                                                                                    | 6                                                  |                                                        |
| Aerobic microorganisms count at 30°C, 1 g                                                     | $< 1,0 \times 10^1$<br>[0; 7,8 x 10 <sup>1</sup> ] | LST EN ISO 4833-1:2013; LST EN ISO 4833-1:2013/A1:2022 |
| Sulphite-reducing anaerobic bacteria count at 37 °C, 1 g                                      | $< 1,0 \times 10^1$<br>[0; 7,1 x 10 <sup>1</sup> ] | LST EN ISO 15213-1:2023                                |
| Coliforms count at 30°C, 1 g                                                                  | $< 1,0 \times 10^1$<br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 4832:2006                                      |
| Most probable presumptive <i>Escherichia coli</i> count, 1 g                                  | 0<br>[0; 3,0]                                      | LST ISO 7251:2006; LST ISO 7251:2005/A1:2024           |
| Yeasts count, 1 g                                                                             | $< 1,0 \times 10^1$<br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                   |
| Moulds count, 1 g                                                                             | $< 1,0 \times 10^1$<br>[0; 7,6 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                   |
| Coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) count, 1 g | $< 1,0 \times 10^1$<br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 6888-1:2021; LST EN ISO 6888-1:2021/A1:2023 |

|                                         |                                                        |                                                            |
|-----------------------------------------|--------------------------------------------------------|------------------------------------------------------------|
| <i>Bacillus cereus</i> group count, 1 g | < 1,0 x 10 <sup>1</sup><br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 7932:2005 (except LST EN ISO 7932:2005/A1:2020) |
| <i>Salmonella</i> spp. detection, 25 g  | not detected                                           | LST EN ISO 6579-1:2017; LST EN ISO 6579-1:2017/A1:2020     |

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|-----------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------|
| Sample No.                                                                                    | 7                                                      |                                                            |
| Aerobic microorganisms count at 30°C, 1 g                                                     | < 1,0 x 10 <sup>1</sup><br>[0; 7,8 x 10 <sup>1</sup> ] | LST EN ISO 4833-1:2013; LST EN ISO 4833-1:2013/A1:2022     |
| Sulphite-reducing anaerobic bacteria count at 37 °C, 1 g                                      | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST EN ISO 15213-1:2023                                    |
| Coliforms count at 30°C, 1 g                                                                  | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 4832:2006                                          |
| Most probable presumptive <i>Escherichia coli</i> count, 1 g                                  | 0<br>[0; 3,0]                                          | LST ISO 7251:2006; LST ISO 7251:2005/A1:2024               |
| Yeasts count, 1 g                                                                             | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Moulds count, 1 g                                                                             | < 1,0 x 10 <sup>1</sup><br>[0; 7,6 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                       |
| Coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) count, 1 g | < 1,0 x 10 <sup>1</sup><br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 6888-1:2021; LST EN ISO 6888-1:2021/A1:2023     |
| <i>Bacillus cereus</i> group count, 1 g                                                       | < 1,0 x 10 <sup>1</sup><br>[0; 7,5 x 10 <sup>1</sup> ] | LST EN ISO 7932:2005 (except LST EN ISO 7932:2005/A1:2020) |
| <i>Salmonella</i> spp. detection, 25 g                                                        | not detected                                           | LST EN ISO 6579-1:2017; LST EN ISO 6579-1:2017/A1:2020     |

|                                                              |                                                        |                                                        |
|--------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Sample No.                                                   | 8                                                      |                                                        |
| Aerobic microorganisms count at 30°C, 1 g                    | < 1,0 x 10 <sup>1</sup><br>[0; 7,8 x 10 <sup>1</sup> ] | LST EN ISO 4833-1:2013; LST EN ISO 4833-1:2013/A1:2022 |
| Sulphite-reducing anaerobic bacteria count at 37 °C, 1 g     | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST EN ISO 15213-1:2023                                |
| Coliforms count at 30°C, 1 g                                 | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 4832:2006                                      |
| Most probable presumptive <i>Escherichia coli</i> count, 1 g | 0<br>[0; 3,0]                                          | LST ISO 7251:2006; LST ISO 7251:2005/A1:2024           |
| Yeasts count, 1 g                                            | < 1,0 x 10 <sup>1</sup><br>[0; 7,1 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                   |
| Moulds count, 1 g                                            | < 1,0 x 10 <sup>1</sup><br>[0; 7,6 x 10 <sup>1</sup> ] | LST ISO 21527-2:2008                                   |

|                                                                                               |                                                |                                                            |
|-----------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------|
| Coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) count, 1 g | $< 1,0 \times 10^1$<br>[0; $7,5 \times 10^1$ ] | LST EN ISO 6888-1:2021; LST EN ISO 6888-1:2021/A1:2023     |
| <i>Bacillus cereus</i> group count, 1 g                                                       | $< 1,0 \times 10^1$<br>[0; $7,5 \times 10^1$ ] | LST EN ISO 7932:2005 (except LST EN ISO 7932:2005/A1:2020) |
| <i>Salmonella</i> spp. detection, 25 g                                                        | not detected                                   | LST EN ISO 6579-1:2017; LST EN ISO 6579-1:2017/A1:2020     |

**Explanation:** No. ... M – Food Microbiology section.  
Test report No. 1-25/00854/1-8 M, issued on 2025-02-12 translation.  
Sign < indicates that the amount of parameter is below the determination limit.  
[...] The reported expanded measurement uncertainty has been estimated in accordance with LST EN ISO 19036:2020 and is based on a standard uncertainty multiply by a coverage factor of  $k = 2$ , providing a level of confidence of approximately 95%“.

#### Conclusion of assessment of results of laboratory tests:

The results of the tests of sample No. 1 for aerobic microorganisms, yeasts, molds, *Escherichia coli* count, and detection of *Salmonella* comply with the microbiological indicator values declared in the manufacturers specification. Sulfite-reducing anaerobic bacteria, coliform bacteria, coagulase-producing staphylococci, and *Bacillus cereus* were not detected, possible quantities are below the detection limits of the methods. The results of the tests of sample No. 2 for aerobic microorganisms, yeasts, molds, *Salmonella*, and coliform bacteria counts and detection of *Salmonella* comply with the microbiological indicator values declared in the manufacturers specification. Sulfite-reducing anaerobic bacteria, *Escherichia coli*, coagulase-producing staphylococci, and *Bacillus cereus* were not detected, possible quantities are below the detection limits of the methods. The results of the tests of sample No. 3 for aerobic microorganisms, yeasts, molds, coliform bacteria counts, and detection of *Salmonella* comply with the microbiological indicator values declared in the manufacturers specification. Sulfite-reducing anaerobic bacteria, *Escherichia coli*, coagulase-producing staphylococci, and *Bacillus cereus* were not detected, possible quantities are below the detection limits of the methods. The results of the tests of sample No. 4 for aerobic microorganisms, yeasts, molds, coliform bacteria, coagulase-producing staphylococci counts, and detection of *Salmonella* comply with the microbiological indicator values declared in the manufacturers specification. *Escherichia coli*, sulfite-reducing anaerobic bacteria, and *Bacillus cereus* were not detected, possible quantities are below the detection limits of the methods. The results of the tests of sample No. 5 for aerobic microorganisms, yeasts, molds, coliform bacteria, *Escherichia coli*, coagulase-producing staphylococci counts, and detection of *Salmonella* comply with the microbiological indicator values declared in the manufacturers specification. Sulfite-reducing anaerobic bacteria and *Bacillus cereus* were not detected, possible quantities are below the detection limits of the methods. In sample No. 6 aerobic microorganisms, yeasts, molds, coagulase-producing staphylococci, *Escherichia coli*, sulfite-reducing anaerobic bacteria, coliform bacteria, and *Bacillus cereus* were not detected, possible quantities are below the detection limits of the methods. *Salmonella* was not detected. The results of the tests of sample No. 7 for aerobic microorganisms, yeasts, molds, coagulase-producing staphylococci, *Escherichia coli* counts, and detection of *Salmonella* comply with the microbiological indicator values declared in the manufacturers specification. Sulfite-reducing anaerobic bacteria, coliform bacteria, and *Bacillus cereus* were not detected, possible quantities are below the detection limits of the methods. The results of the tests of sample No. 8 for aerobic microorganisms, yeasts, molds, coagulase-producing staphylococci, *Escherichia coli* counts, and detection of *Salmonella* comply with the microbiological indicator values declared in the manufacturers specification. Sulfite-reducing anaerobic bacteria, coliform bacteria, and *Bacillus cereus* were not detected, possible quantities are below the detection limits of the methods. When presenting compliance with a specification or requirement, binary decision making principle with guard band and specific risk with probability of false reject is applied, except cases when the decision making principle is determined by the client, regulations or normative documents.

Test results relate only to the items tested.

\*\* The Institute does not take samples and is not responsible for sampling.

The Institute does not take responsibility for the data provided by the customer

Partial reproduction of test report is not allowed without written approval of the Institute.

Date of issue of the test report: 2025-06-05



**Signatures**

The test report  
signed by

The test report  
approved by

Maisto produktų mikrobiologinių  
tyrimų skyriaus patarėja

**Indrė Žigarienė**

Maisto produktų mikrobiologinių  
tyrimų skyriaus mikrobiologė

**Asta Mikalonytė**