

Yeast extract

Code 84601.0500

Also known as

Yeast autolysate

Intended use

Yeast extract is an autolysate of yeast cells used in the preparation of microbiological culture media.

Principle of the method and general information

Yeast Extract is a water-soluble spray-dried extract resulting from the autolysis of primary grown yeast cells of the species *Saccharomyces cerevisiae*. During the production, the process is carefully controlled so that the B-complex vitamins are almost completely conserved. Yeast Extract is an excellent source of B-complex vitamins and it is standardised for bacteriological purposes.

Instruction for use

For laboratory use only. The experimental procedure depends on the purpose for which Yeast extract is used.

Quality Control

Physical characteristics:

| | |
|---------------------------|---|
| Appearance of powder | Ochre, fine, homogeneous hygroscopic powder |
| Appearance of 2% solution | Yellow, limpid |
| pH 2% solution (25°C) | 7.0 ± 0.2 |
| Dry matter | 94 - 98% |
| Total nitrogen (TN) | 10.0 - 11.8 % |
| α-amino nitrogen (AN) | 4.8 - 6.3 % |
| Sodium chloride | < 0,5 |

Microbiological characteristics:

| Test strains | Incubation T° / t / At. | Inoculation method | Growth characteristics |
|----------------------------------|----------------------------|-----------------------|---------------------------|
| Yeast extract broth | | | |
| <i>S. aureus</i> ATCC 25923 | 35-37 °C / 24 h / AE | DE | Good growth |
| <i>S. epidermidis</i> ATCC 12228 | 35-37 °C / 24 h / AE | DE | Good growth |
| <i>S. pyogenes</i> ATCC 19615 | 35-37 °C / 24 h / AE | DE | Good growth |
| <i>S. flexneri</i> ATCC 12022 | 35-37 °C / 24 h / AE | DE | Good growth |
| Yeast extract agar | | | |
| <i>S. epidermidis</i> ATCC 12228 | 35-37 °C / 24 h / AE | EC | Good growth |
| <i>S. faecium</i> ATCC 19434 | 35-37 °C / 24 h / AE | EC | Good growth |
| <i>S. pneumoniae</i> ATCC 6303 | 35-37 °C / 24 h / AE | EC | Good growth |
| <i>C. albicans</i> ATCC 18804 | 35-37 °C / 24 h / AE | EC | Good growth |

Notes

Incubation atmosphere AE: aerobic incubation

Inoculation method DE: dilution to extinction method; EC: semi-quantitative, ecometric technique

ATCC is a registered trade mark of American Type Culture Collection

Storage conditions

Keep tightly closed, away from bright light, in a cool dry place (+10°C to 30 °C and <60% RH).

Ordering information

84601.0500

Yeast extract

Bottle of 500 g