



Product Sheet

Saccharomyces cerevisiae (ATCC® MYA-4941™)

Please read this FIRST



Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section



Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Saccharomyces cerevisiae* (ATCC® MYA-4941™)

American Type Culture Collection
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Manassas, VA 20108 USA
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800.638.6597 or 703.365.2700
Fax: 703.365.2750
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Or contact your local distributor

Description

Strain Designation: EBY100

Genotype: MATa AGA1::GAL1-AGA1::URA3 ura3-52 trp1 leu2-delta200 his3-delta200 pep4::HIS3 prbd1.6R can1 GAL

Product Description: An ampoule containing viable cells (yeast cells, spores, or agar cubes with mycelia) suspended in cryoprotectant.

Propagation

The information recommended in this section is to assist users in obtaining living culture(s) for their studies. The recommendation does not imply that the conditions or procedures provided below are optimum. Experienced researchers may initiate the growth of a culture in their own way.

ATCC® Medium 1245: YEPD

ATCC® Medium 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

Growth Conditions

Temperature: 30°C

Atmosphere: Typical aerobic

Recommended Procedure

Frozen ampoules packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampoules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampoules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the culture.

1. To thaw a frozen ampoule, place in a **30°C** water bath, until just thawed (**approximately 5 minutes**). Immerse the ampoule just sufficient to cover the frozen material. Do not agitate the ampoule.
2. Immediately after thawing, wipe down ampoule with 70% ethanol and aseptically transfer 50 µL (or any amount desired up to all) of the content onto a plate or broth with medium recommended.
3. Incubate the inoculum/strain at the temperature and conditions recommended. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: Colonies on YEPD at 30°C after 4 days are butyrous, cream colored, smooth surface and usually flat. Cells are globose, ovoidal or elongate and are usually isolated or in small groups.

Notes

EBY100 (Leu-, Trp-) is BJ5465 and is MATa. It has auxotrophic: ura3-52 (a Ty element insertion with no detectable background reversion frequency), trp1 (an amber point mutation), leu2-delta200, his3-delta200, pep4HIS3, prbd1.6R, can1, GAL. EBY100 has genomic insertion of AGA1 regulated by GAL promoter with a URA3 selectable marker.

Additional, updated information on this product may be available on the ATCC® web site at www.atcc.org.

DNA Sequence

18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 26S ribosomal RNA gene, partial sequence
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTAAAGAAATTTAATAATTTTGAAAATGGATTTTTTTG
TTTTGGCAAGAGCATGAGAGCTTTTACTGGCAAGAAGACAAGAGATGGAGAGTCCAGCCGGCCCTG
CGCTTAAGTGCGCGGTCTTGCTAGGCTTGTAAAGTTTCTTTCTTGCTATTCCAAACGGTGAGAGATTCTGT
GCTTTTGTATAGGACAATTAACCCGTTTCAATACAACACACTGTGGAGTTTTTCATATCTTTGCAACTT
TTTTTTGGGCATTGAGCAATCGGGGCCAGAGGTAACAAACACAAACAATTTTATCTATTCATTA
TTTTGTCAAAAACAAGAATTTTCGTAACCTGGAAATTTTAAATATTTAAACTTTCAACACCGGATCT
CTTGTTCTCGCATCGATGAAGAACGCGAGCAAAATGCGATACGTAATGTGAATTGCAGAATCCCGTGA
ATCATCGAATCTTTGAACGCACATTGCGCCCCCTTGGTATCCAGGGGGCATGCCCTGTTTGAGCGTCATT
CCTTCTCAAACATCTGTTTGGTAGTGAGTGATACTTTGGAGTTAACTTGAATGCTGGCCTTTTTCAT
TGGATGTTTTTTTTCCAAAGAGAGGTTTTCTGCGTGCTTGAGGTATAATGCAAGTACGGTCTGTTTTAGG
TTTTACCAACTGCGGCTAATCTTTTTTATACTGAGCGTATTGGAACGTTATCGATAAGAAGAGAGCGTC
TAGGCGAACATGTTCTTAAAGTTTGACCTCAAATCAGGTAGGAGTACCCGCTGAACCTTAAGCATATC



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AATAA

D1D2 region of the 26S ribosomal RNA gene
ATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCTTAGTACGCGCGAGTGAAGCGGCCAAA
AGCTCAAATTTGAAATCTGGTACCTTCGGTGCCCGAGTTGTAATTTGGAGAGGGCAACTTTGGGGCCGT
TCCTTGTCTATGTTCCCTTGGAAACAGGACGTCATAGAGGGTGAGAATCCCGTGTGGCGAGGAGTGCCGT
TCTTTGTAAGTGCCTTCGAAGAGTTCAGTTGTTGGGAATGCAGCTCTAAGTGGGTGGTAAATCCAT
CTAAAGCTAAATATTGGCGAGAGACCGATAGCGAACAAAGTACAGTGTGAAAGATGAAAAGAACT
TTGAAAAGAGAGTGAAAAAGTACGTGAAATTGTTGAAAGGGAAGGCCATTTGATCAGACATGGTGT
TTGTGCCCTCTGCTCCTTGTGGGTAGGGGAATCTCGCATTTCACTGGGCCAGCATGTTTTGGTGGCAG
GATAAATCCATAGGAATGTAGCTTGCCTCGGTAAGTATTATAGCCTGTGGGAATACTGCCAGCTGGGA
CTGAGGACTGCGACGTAAGTCAAGGATGCTGGCATAATGGTTATATGCCGC

Isolation

Parent strain used *Saccharomyces cerevisiae* BJ5465.

References

References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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Additional information on this culture is available on the ATCC web site at www.atcc.org.
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