Saccharomyces cerevisiae (ATCC® MYA-4941™)

Product Sheet

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™)

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

CGCTTAAGTGGCGCTTCTGGTAGCTTTGTAAAGTTTGACCTCAAATCAGGTAGGAGTACCCGCTGAACTTAAGCATATC
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AATAA

D1D2 region of the 26S ribosomal RNA gene
ATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCTTAGTAACGGCGAGTGAAGCGGCAAA
AGCTCAAATTTGAAATCTGGTACCTTCGGTGCCCGAGTTGTAATTTGGAGAGGGCAACTTTGGGGCCGT
TCCTTGTCTATGTTCCTTGGAACAGGACGTCATAGAGGGTGAGAATCCCGTGTGGCGAGGAGTGCGGT
TCTTTGTAAAGTGCCTTCGAAGAGTCGAGTTGTTTGGGAATGCAGCTCTAAGTGGGTGGTAAATTCCAT
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CTGAGGACTGCGACGTAAGTCAAGGATGCTGGCATAATGGTTATATGCCGC

Parent strain used Saccharomyces cerevisiae BJ5465.

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

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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