Product Sheet

Saccharomyces cerevisiae
(ATCC® 208352™)

Description

Strain Designation: W303-1a
Deposited Name: Saccharomyces cerevisiae Hansen
Genotype: MATα ade2-1 ura3-1 his3-11 trp1-1 leu2-3 leu2-112 can1-100
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 1069: YPAD medium

Growth Conditions
Temperature: 25°C to 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 25°C to 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 at least 50 µl (or 2 to 3 agar cubes) of the content onto a plate or broth with medium recommended.
3. Incubate the inoculum/strain at the temperature and conditions recommended.
4. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 5 to 7 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology:
After 4 days at 25°C growth is butyrous and light cream colored, cells are globose, ovoidal or elongate, (3.0 to 8.0) x (5.0 to 10.0) µm, isolated or in small groups. Sediment is present after one month.

Notes

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 28S ribosomal RNA gene, partial sequence.

TCCGCTTATGATGTTACTCATGCTACTGGCTATTTGAGGTCAAACTTTAAGAAGACATTGTGCGCCGACGCAATGCTGCGTTCAAGATTCGATGATTCACGGAATTCTGCAATTCACTTATCGCATTTCGCTGCGTTCTTCATCGATTGCGAGAACCAAGAGATCCGTTGTTGAAAGTTTTTAATATTTTAAAATTTCCAGTTACGAAAATTCTTGTTTTTGACAAAAATTTAATGAATAGTAAAATTGTTTGTGTTTGTTACCTCTGGGCCCCATGGCTCGAATGCCTAAAGAAAAAGTTGCAAAGATATGAAAACTCCACAGTGTGTTGTATTGAAACGGTTTTAATTGTCCTATAACAAAAGAAGAAATCTCTACCGTTTGGAATAGCAAGAAAGAAACTTACAAGCCTAGCAAGACCGCGCACTTAAGCGCAGGCCCGGCTGGACTCTCCATCTCTTGTCTTCTTGCCCAGTAAAAGCTCTCATGCTCAGAAAACAAAAATCCATTTTCAAAATTATTAAATTTCTTTAATGATCCTTCCGCAGGTTCACCTAC

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

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