Saccharomyces cerevisiae Meyen ex E.C. Hansen

204535™

Description

Strain designation: B-7595
Deposited As: *Saccharomyces cerevisiae* Hansen, teleomorph
Type strain: No
Mating type: a
Genotype: MATa ura3-52 leu2-3 leu2-112 trp1-289 met2 cyh(r) HIS3+ [cir0]

Storage Conditions

Product format: Frozen

Intended Use

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

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:
ATCC Medium 1069: YPAD medium
Temperature: 25°C
Atmosphere: Aerobic

Handling Procedures

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 2-3 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 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Notes

Before using any of the strains for mapping an unknown gene, check the strain with a known marker located on the specific chromosome for which the strain is being used. There have been reports of two incorrectly marked strains obtained from YGSC and from the Sherman-Wakem lab.

Mapping strains: chromosomal assignment with 2-micron tester strains (AB2).

Reported as gal-resistant.

Each of the 2-micron strains contains derivatives of the integrated plasmid YEp24 and is URA3+. >>>

It has become apparent that several of the 2-micron strains tend to lose the plasmid spontaneously at a rather high rate. To prolong stability of the integrated plasmid, revive the strains from paper replicas on Ura- medium rather than on rich YEPD medium. A study by Y. Kaneko of the Institute for Fermentation in Osaka, Japan, has established approximate percentages of loss of the Ura+ phenotype in the 2-micron strains when replica-plated from YEPD medium to Ura-. The results indicate that strains B-7588, B-7589, B-7175, B-7595, B-7596, B-7599, B-7602, B-7604, B-7608, B-7610, B-7612, and B-7614 become auxotrophic for uracil at a rate between 10 and

39%; the percentage loss of the Ura+ phenotype for all other strains is between 0.22 and 0.49%. For more precise numbers, please contact YGSC.

Every effort is made to provide strains having the exact requirements as listed in the catalogue. However, yeast strains, like every other biological system, are constantly undergoing change, so that the sample you receive may not have exactly the same markers as determined when the strains were stored: reversion of certain mutations may have occurred, new mutations or suppressors which impart selective advantage to the strain may have been acquired and there may be ploidy changes. We urge checking the strains before extensive use.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Saccharomyces cerevisiae* Meyen ex E.C. Hansen (ATCC 204535)

References

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

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