ATCC

Product Sheet

Saccharomyces cerevisiae (ATCC® GSA-4™)

Please read this FIRST

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® GSA-4™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain Designation: Set of Saccharomyces cerevisiae strains - MATa knockouts
Product Description:
PRODUCT DESCRIPTION: Whole set of *Saccharomyces cerevisiae* Genome ORF (open reading frame) deletion mutants of mating type a arrayed on 96-well plates.

This set consists of a total of seventy-four 96-well plates; seventy-three plates are designated GSA-4 Chr ##_# and one plate is designated GSA-4nar1. Specific designations and strain maps are provided on the following page and as a separate Microsoft Excel data file, which is provided to customers either on a CD, sent as an email attached file, or downloadable from ATCC web site. This data file contains the information on strain number, ORF deleted, plate name, strain location, etc.

The plate designated as GSA-4nar1 contains replacement strains for those deletions that were not received earlier or did not grow during the first arraying. The location of those strains on the original plates is also noted in the Microsoft Excel data file.

The strains in this set were all derived from the mating type a (haploid) parent strain BY4741 (his3?1 leu2?0 met15?0 ura3?0) and BY4739 (leu2?0 met15?0 ura3?0). The deletion strains were generated using a PCR-based deletion strategy. Each ORF disruption was made by replacing the ORF with a KanMX module and uniquely tagged with one or two 20mer sequences. These strains are arrayed in seventy-four 96-well plates

Propagation

ATCC® Medium 2241: YEPD with geneticin 200 mcg/ml

Growth Conditions
Temperature: 25.0 °C

Recommended Procedure
1. Each 96-well microtiter plate contains 120 uL of yeast cells suspended in YEPD with 15% glycerol and G418 (200 g/ml).

2. The location of each strain is indicated on the appropriate placement map (see well map).

3. Centrifuge the microtiter plate briefly, if possible. Peel the seal off the plate surface very carefully, to avoid cross contamination between wells. It is better to keep the plates frozen before peeling off the cover sheet.

4. For testing viability, streak each strain on a YEPD agar plate containing G418 (200 g/ml) and then incubate at 25°C to 30°C for at least two days.

5. Please note that some strains may grow slowly and may require at least twice the normal incubation period.

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.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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

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