Saccharomyces cerevisiae Meyen ex E.C. Hansen

MYA-5097™

Description

LFYalpha is a MATα haploid yeast strain derived from the BJ5464 (ATCC 208288) lineage, optimized for genomic integration of antibody light chain libraries and high-efficiency mating partner for LFYa (ATCC MYA-5096) in antibody engineering workflows. It contains a genomic landing pad at the XII-2 locus featuring a promoterless trp1 marker and an I-SceI site for the integration of Light Chain (LC) libraries. Uniquely, LFYalpha carries an inducible BxB1 serine recombinase system (WTC controller), enabling the physical linkage of HC and LC sequences onto a single chromosome in diploid progeny for deep sequencing (NGS) compatibility.

Strain designation: LFYalpha

Type strain: No

Genotype: *ura3-Δ, trp1-Δ*, FF18::WTC, XII-2::landing pad alpha

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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 200: YM agar or YM broth
ATCC Medium 28: Emmons' modification of Sabouraud's agar/broth
ATCC Medium 1245: YEPD
Temperature: 28-32°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 **28°C to 32°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. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 2-3 days of incubation. However, the time necessary for significant growth will vary from strain to strain

Morphology: On 200 agar after 2 days at 30°C, colonies are light cream colored, texture butyrous and smooth.

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 MYA-5097)

References

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

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Revision

This information on this document was last updated on 2026-05-29

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