



Product Sheet

# *Saccharomyces cerevisiae* (ATCC® MYA-4940™)

Please read this **FIRST**



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation Section**

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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-4940™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain Designation:** YVH10

**Deposited Name:** *Saccharomyces cerevisiae*

**Genotype:** MATalpha PDI1::GAPDH-PDI1::LEU2 ura3- 52 trp1 leu2-delta200 his3-delta200 pep4::HIS3 prbd1.6R can1 GAL

**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 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

ATCC® Medium 1245: YEPD

## Growth Conditions

**Temperature:** 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 2-3 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 2-4 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Colony and Cell Morphology:** On YM medium at 30°C for 2 days, colonies creamy white to dingy white, butyrous, smooth, slightly raised, margin entire. Cells globose to subglobose, hyaline, smooth, contain oil droplets, 4-6 X 3-5 µm. Pseudohyphae not observed.

## Notes

YVH10 (Ura-, Trp-) is BJ5464 and is MAT-alpha. The other markers are: ura3-52 (a Ty element insertion with no detectable background reversion frequency), trp1 (an amber point mutation), leu2-delta200, his3-delta200, pep4::HIS3, prbd1.6R, can1, GAL. YVH10 has the yeast PDI gene integrated in tandem with the endogenous copy and is under the constitutive glyceraldehydes (GADPH) promoter with Leu2 as a selectable marker. Additional, updated information on this product may be available on the ATCC® web site at [www.atcc.org](http://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  
GGTTCCCGTAGGTGAACCTGCGGAAGGATCATTAAAGAAATTAATAATTTTGAAAATGGATTTTTTTG  
TTTTGGCAAGAGCATGAGAGCTTTACTGGGCAAGAAGACAAGAGATGGAGAGTCCAGCCGGCCTG  
CGCTTAAGTGCGCGGTCTTGCTAGGCTTGTAAAGTTCTTTCTTGCTATTCCAACGGTGAGAGATTTCTGT  
GCTTTTGTTATAGACAATTAACCCGTTTCAATACAACACACTGTGGAGTTTTCATATCTTTGCAACTT  
TTTCTTTGGGCATTCGAGCAATCGGGGCCAGAGGTAACAAACACAAACAATTTATCTATTCAATAA  
TTTTGTCAAAAACAAGAATTTTCGTAACCTGGAAATTTAAAATATTAACAACTTCAACAACGGATCT  
CTTGGTTCTCGCATCGATGAAGAACGCAGCGAAATGCGATACGTAATGTGAATTGCAGAATCCGCTGA  
ATCATCGAATCTTTGAACGCACATTGCGCCCTTGGTATTCCAGGGGGCATGCTGTTTGAGCGTCATTT  
CCTTCTCAACATTCTGTTTGGTAGTGAGTGATACTTTGGAGTTAACTTGAATGCTGGCCTTTTCAT  
TGGATGTTTTTTTCCAAGAGAGGTTTCTCTGCGTGCTTGAGGTATAATGCAAGTACGGTCGTTTTAGG



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TTTTACCAACTGCGGCTAATCTTTTTTATACTGAGCGTATTGGAACGTTATCGATAAGAAGAGAGCGTC  
TAGGCGAACAAATGTTCTTAAAGTTTGACCTCAAATCAGGTAGGAGTACCCGCTGAACCTAAGCATATC  
AA

D1D2 region of the 26S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCTTAGTAACGGCGAGTGAAGCGGCAAA  
AGCTCAAATTTGAAATCTGGTACCTTCGGTGCCCGAGTTGTAATTTGGAGAGGGCAACTTTGGGGCCGT  
TCCTGTCTATGTTCCCTTGAACAGGACGTCATAGAGGGTGAGAATCCCGTGTGGCGAGGAGTGCGGT  
TCTTTGTAAGTGCCCTCGAAGAGTCGAGTTGTTGGGAATGCAGCTCTAAGTGGGTGGTAAATCCAT  
CTAAAGCTAAATATTGGCGAGAGACCGATAGCGAACAAAGTACAGTGTGAAAGATGAAAAGAACT  
TTGAAAAGAGAGTGAAAAAGTACGTGAAATTGTTGAAAGGGAAGGGCATTGATCAGACATGGTGTT  
TTGTGCCCTCTGCTCCTGTGGGTAGGGGAATCTCGCATTCACTGGGCCAGCATCAGTTTTGGTGGCAG  
GATAATCCATAGGAATGTAGCTTGCCTCGGTAAGTATTATAGCCTGTGGGAATACTGCCAGCTGGGA  
CTGAGGACTGCCGACGTAAGTCAAGGATGCTGGCATAATGGTTATATGCCGC



From parent strain BJ5464



References and other information relating to this product are available online at [www.atcc.org](http://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.

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## Disclaimers

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Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
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