Strain Designation: PO1f
Deposited Name: Yarrowia lipolytica (Wickerham et al.) van der Walt et von Arx
Genotype: MATA ura3-302 leu2-270 xpr2-322 axp2-deltaNU49 XPR2::SUC2
Product Description: An ampoule containing viable cells (yeast cells, spores, or agar cubes with mycelia) suspended in cryoprotectant.

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: 24°C to 26°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). Immers 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.

Colony and Cell Morphology: On YEPD medium at 25°C after 5 days, colonies creamy white to buff, smooth becoming tomentose, margin entire becoming filamentous. Cells hyaline, subglobe to obvoid, smooth, 5.5-10.5 X 3-6 µm. Pseudohyphae present.

Additional, updated information on this product may be available on the ATCC® web site at www.atcc.org.

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

AGAACCAACAGGATGCTTCTACGATACCCGCGGAGGAAGCTCAACACCGGAATTCAGTGGATAGAGACGAGTGGAGAGTGGCCGAGGTTTCAGCCGCCCCTCGTGGGCGGTGTACTGCCGACGCCGAGTCATCGATAGCGAGACGAGGGTTACAAATGGGAGCGCCTT

D1D2 region of the 28S ribosomal RNA gene

AGAACCAACAGGATGCTTCTACGATACCCGCGGAGGAAGCTCAACACCGGAATTCAGTGGATAGAGACGAGTGGAGAGTGGCCGAGGTTTCAGCCGCCCCTCGTGGGCGGTGTACTGCCGACGCCGAGTCATCGATAGCGAGACGAGGGTTACAAATGGGAGCGCCTT
Yarrowia lipolytica (ATCC® MYA-2613™)

Isolation

Derived from existing strain (W29, ATCC 20460)

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.

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

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