



## Product Sheet

(20796)

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### Intended Use

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

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#### U.S. Patent Number:

4,751,180

### Technical Information

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### Product Description

An ampoule containing viable cells (yeast cells, spores, or agar cubes with mycelia) suspended in cryoprotectant.

**Organism:** *Saccharomyces cerevisiae* Meyen ex E.C. Hansen

### Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

### SAFETY PRECAUTION

ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials 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 vessel exploding or blowing off its cap with dangerous force creating flying debris.

### Unpacking & Storage Instructions

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below  $-130^{\circ}\text{C}$ , preferably in liquid nitrogen vapor, until ready for use.

### Handling Procedure for Frozen Cells

1. To thaw a frozen ampoule, place in a  $25^{\circ}\text{C}$  to  $30^{\circ}\text{C}$  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  $\mu\text{L}$  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

### Comments

Produces superoxide dismutase and other polypeptides

The insert contains human superoxide dismutase fused to the amino-terminus of insulin-like growth factor 2 with a methionine codon at the junction between the two sequences.

A 0.51 kb EcoRI/BamHI fragment containing the IGF2 and alpha-factor terminator was ligated with the 1.83 kb BamHI/EcoRI fragment containing the ADH2-GAP promoter and SOD. The resulting 2.34 kb BamHI fragment was cloned into pAB24.

**DNA:** cDNA

**Gene Product:** insulin-like growth factor 2 [IGF2]

**Alleles:** A1, A2, B1, B2

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## Propagation

### Complete Growth Medium

ATCC® Medium 1212: Yeast synthetic minimal medium

### Propagation Procedure

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.

### Notes

**DNA:** cDNA

**Gene Product:** insulin-like growth factor 2 [IGF2]

**Alleles:** A1, A2, B1, B2

### References

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.

### ATCC Warranty

Patent Deposits not produced or characterized by ATCC are warranted for viability only. If you believe the culture you have received is nonviable, contact Technical Services by phone at 800-638-6597 or 703-365-2700 or by e-mail at [tech@atcc.org](mailto:tech@atcc.org). Or you may contact your local distributor.

### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans. While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

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 insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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### Disclosure

This material is cited in a US or other Patent and may not be used to infringe the claims. Depending on the wishes of the Depositor, ATCC may be required to inform the Patent Depositor of the party to which the material was furnished.

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

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