ATCC

Product Sheet

(20745)

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.

Patent Depository

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U.S. Patent Number:
4,751,180

Technical Information

ATCC Technical Services does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found on the international or U.S. patent office websites.

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°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°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 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 human proinsulin with a methionine codon at the junction between the two sequences.

A 1.3 kb fragment containing the ADH2-GAP promoter was ligated to the 1.7 kb fragment containing SOD1-proinsulin fusion sequences and GAP terminator. This 3 kb cassette was then cloned into pC1/1.
The superoxide dismutase sequences were isolated from a human liver cDNA library. The proinsulin sequences were chemically synthesized using yeast-preferred codons.

DNA: cDNA

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

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Gene Product: insulin [INS]
Alleles: K2, A3, B2, A1, A1, A4, A3, A3, A5, A6, B1, K1, B1, A1, A2, A2, A2, B2

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 [INS]
Alleles: K2, A3, B2, A1, A1, A4, A3, A3, A5, A6, B1, K1, B1, A1, A2, A2, A2, B2

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

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. 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.
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Disclosure

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

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