ATCC

Product Sheet

human embryonic heart, 67d (ATCC® 87234™)

Homo sapiens

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.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Homo sapiens* (ATCC® 87234™)

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

Description

Designation: human embryonic heart, 67d

Distributed In

Escherichia coli DA1061 (ATCC 47088)
Host Genotype: F- hsdR mcrB araD139 delta(lacIPOZY)X74 galE15 galK rpsL thi lambda-

Vector Information

Vector : lambda-ZAPII
Vector type : phage
Intact vector size (kb) : 40.18
Features : (with orientation and position, when available) :
Insert detection : lacZ?
Marker : ampR
Promoter for in vitro transcription : T3, T7
Replicon : pMB1, f1, lambda

Propagation

Thaw contents of the vial in a 37°C water bath with gentle agitation until no ice crystals remain. Library can be diluted and plated following standard protocols. Recommended growth media is LB. Recommended growth temperature is 37°C.
Starting and Amplifying ATCC Bacteriophage Lambda Clones and Vectors:
1. Prepare fresh plating bacteria. Grow *E. coli* host strain overnight or at least to A600 = 0.4 in medium containing 0.2% maltose (to give higher titers).
2. Spin down cells in a low speed centrifuge. Resuspend in 0.4 volumes 10 mM MgSO4 or SM buffer. Store at 40C until ready to use. These cells are good for up to 2 weeks if stored at 4°C.
3. Open freeze dried vial containing the phage according to instructions.Asceptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well.
4. Pipette 100 µl of the host suspension to a sterile test tube. Add 3 mL. of warm (50°C) LB lambda top agar (see below) containing 0.2% maltose and mix gently. Pour onto plates. Allow the plates to solidify.
5. Spot a loopful or two of the phage suspension on the lawn of the freshly poured bacteria.
6. Incubate overnight at 37°C. Fresh plates give larger plaques.
7. Cut plaques out of agar and add them to 0.5 mL of 10 mM $MgSO_4$ or SM buffer and store at 4°C overnight.
8. Add 100 µl of the overnight phage dilution to 100 µl prepared plating bacteria and mix gently. Incubate in a 37°C water bath for 20 minutes to allow phage to adsorb.
9. Add 3 mL. LB lambda top agar containing 0.2% maltose and mix gently. Pour onto plates. Incubate overnight at 37°C.
10. Invert open plate over a chloroform-saturated adsorbent paper for 10 minutes.
11. Add 7.5 mL of 10 mM $MgSO_4$ or SM buffer to the plate and allow it to stand at room temp for 1 hour or in 4°C overnight.
12. Collect and save the liquid on the plate. This should be a high titer lysate. Add a few drops of chloroform if its going to be stored for more than a few days.
LB Lambda top agar medium:
NaCl 5 g
Tryptone 10 g
Yeast extract 5 g
Distilled water to 1 L
Sterilize at 121°C, 15 minutes. Cool to approximately 50°C and add the following sterile solutions.
1M $CaCl_2$ 5 mL
$MgSO_4$ H_2O to a final concentration of 0.2% w/v
50% maltose 5 mL

Growth Conditions
Temperature: 37°C

References

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

Biosafety Level: 1

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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

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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

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