Organism: Homo sapiens, human
Tissue: mammary gland/breast; derived from metastatic site: pleural effusion
Disease: adenocarcinoma
Age: 38 years
Gender: female
Morphology: epithelial
Growth Properties: adherent
Isoenzymes:
- AK-1, 1
- ES-D, 2
- G6PD, A
- GLO-I, 1-2
- Me-2, 2
- PGM1, 1
- PGM3, 1
DNA Profile:
- Amelogenin: X
- CSF1PO: 10,12
- D13S317: 11,13
- D16S539: 13
- D5S818: 11,13
- D7S820: 9,10
- THO1: 7,9.3
- TPOX: 8
- vWA: 17

Cytogenetic Analysis: modal number =73; range = 65 to 76. The stemline chromosome number is hypertriploid with the 2S component occurring at 0.8%. Ten markers (del(2), t(6;?), t(6;?), t(2;12), t(14;?), and single or paired M6, M7, M8, M9, and M10) were common to all cells, and four others (M13, M15, M16, and t(13,21) occurred in some cells. The X chromosome was generally tetrasomic and chromosome 4 was tetrasomic or pentasomic (P35). No Y chromosomes were detected in QM stained preparations.

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

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 submerged 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.

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.
3. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).
4. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
5. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 125 x g for 5 to 7 minutes.
6. Resuspend cell pellet with the recommended complete medium (see the specific batch information for the culture recommended dilution ratio) and dispense into a 25 cm² or a 75 cm² culture flask.
Product Sheet
MDA-MB-415 (ATCC® HTB-128™)

Please read this FIRST

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

Complete Growth Medium
Leibovitz's L-15 medium with 2mM L-glutamine supplemented with 10 mcg/ml insulin and 10 mcg/ml glutathione, 85%; fetal bovine serum, 15%.
(Note: The L-15 medium formulation was devised for use in a free gas exchange with atmospheric air. A CO2 and air mixture is detrimental to cells when using this medium for cultivation)

Citation of Strain
If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: MDA-MB-415 (ATCC® HTB-128™)

Subculturing Procedure
Subcultures are prepared by scraping. Remove old medium, add fresh, dislodge cells, aspirate and dispense into new flasks. Subculture every 6 to 8 days.
Subcultivation Ratio: A subcultivation ratio of 1:2 is recommended
Medium Renewal: 2 to 3 times per week

Cryopreservation Medium
Complete growth medium described above supplemented with 5% (v/v) DMSO.
Cell culture tested DMSO is available as ATCC Catalog No. 4-X.

Comments
The cells express the WNT7B oncogene [PubMed: 8168088].
The patient presenting with the tumor was from Paraguay and, although listed as Caucasian, may have had mixed ancestry as suggested by the presence of G6PD type A phenotype in the cells.
The line forms flat, spreading plaques of epithelia which exhibit desmosomes, extensive microtubules and microfilaments upon examination with the electron microscope.
It is not amenable to trypsinization.

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

Biosafety Level: 1

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ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. 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 product. 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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