Embryo Biopsy Medium

Embryo Biopsy Medium is a convenient, ready-to-use solution specifically designed for culturing cleavage-stage embryos during biopsy procedures to remove blastomeres for pre-implantation genetic diagnosis (PGD).

The composition of this medium is based upon a published formulation* proven to be clinically successful for biopsy procedures and further development of cleavage-stage human embryos*.

This medium consists of HEPES buffered HTF lacking Ca$^{2+}$ and Mg$^{2+}$ ions and containing EDTA (0.5mM) as a chelating agent. It is also supplemented with therapeutic-grade human serum albumin (5mg/mL) and the antibiotic gentamicin sulfate (10µg/mL)

Irvine Scientific has performed extensive efficacy testing on Embryo Biopsy Medium using mouse embryos. Cleavage-stage embryos (8 cell) were exposed to Embryo Biopsy Medium for up to 2 hours, then washed and cultured to blastocyst.

The rate of blastocyst development for mouse embryos exposed to Embryo Biopsy Medium for up to 2 hours was equivalent to control embryos. Embryo Biopsy Medium was not toxic to the embryos, and had no adverse effects on subsequent embryo development to the blastocyst stage. The performance of Embryo Biopsy Medium is consistent from lot-to-lot.

Embryo Biopsy Medium is available in packages of 2 x 20 mL.

The shelf life is 180 days when stored sealed at the recommended temperature of 2-8°C.

Gentamicin sulfate is included as the antibiotic.

Features and Benefits:

- Convenient ready-to-use medium for culturing cleavage-stage embryos during biopsy procedures to remove blastomeres.
- This medium contains HTF buffered with HEPES to maintain proper pH during biopsy procedures at ambient atmosphere.
- Certificate of Analysis available for each lot.

Mouse Embryo Assay

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Embryo Biopsy Medium, Catalog #90103

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Lot-to-Lot Comparison

Lot #1

Lot #2

Lot #3

Embryo Biopsy Medium

Control (biopsy)

Control (growth)

Mouse Embryo Assay

Each lot of Embryo Biopsy Medium receives a complete laboratory evaluation including mouse embryo testing, endotoxin level, pH, osmolality and sterility testing. All results are provided in a lot-specific Certificate of Analysis.

Irvine Scientific's commitment to excellence is demonstrated by our products' performance and adherence to the industry's highest quality standards. We were one of the first companies in the USA to receive ISO 13485:2003 quality systems certification, the new rigorous international quality assurance standard designed specifically for Medical Devices.

Always refer to product insert for complete instructions for use. For more information on all of our Reproductive Products, call 1 (800) 437 5706.

*Data on file