CERTIFICATE OF ANALYSIS

IMT International Ltd.
Canalside Business Park
Tattenhall Chester
Cheshire, CH3 9BD
United Kingdom

EMBRYOTECH LABORATORIES
140 Hale Street
Haverhill, MA 01830
qc@embryotech.com

ELI Accession Number: IIL-9310-0818 **Date of completion:** 08-31-2018

Lot number: 0201807A **Reference number:** LBL020

Description of test article(s): Not for Cryo Use Label

Assay system requested by customer: The test article was placed on a culture plate. 1-cell mouse embryos are placed in the culture plate and cultured for 96-hours.

Control assay method and results: 15 1-cell ($B_6C_3F_1$ X $B_6D_2F_1$) embryos were cultured in triplicate micro drops of culture medium overlaid with oil:

15 / 15 (100 %)	1-cell to 2-cell within 24 hr
15 / 15 (100 %)	1-cell to expanded blastocyst within 96 hr

For a valid assay, Embryotech™ requires at least 70% of 1-cell control embryos to develop to expanded blastocyst within 96-hours.

Test assay method and results: 21 1-cell ($B_6C_3F_1$ X $B_6D_2F_1$) embryos were cultured in triplicate micro drops of culture medium overlaid with the test article adhered to the outside of a culture plate:

21 / 21 (100 %)	1-cell to 2-cell within 24 hr
20 / 21 (95 %)	1-cell to expanded blastocyst within 96 hr

Summary of observations: All test and control embryos were selected randomly from a common pool of freshly collected embryos. 100 percent of the control embryos developed to the expanded blastocyst stage within 96-hours. 95 percent of the test embryos cultured in the culture plate with the test articles adhered developed to the expanded blastocyst stage within 96-hours

Signature
Study Director

08-31-2018
Date

S. Rosenwald
Signature
Quality Reviewer

08-31-2018
Date

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ELI Accession Number: IIL-9310-0818 **Date of completion:** 08-31-2018

Lot number: 0191808A **Reference number:** LBL019

Description of test article(s): For Cryo Use Label

Assay system requested by customer: The test article was placed on a culture plate. 1-cell mouse embryos are placed in the culture plate and cultured for 96-hours.

Control assay method and results: 15 1-cell ($B_6C_3F_1$ X $B_6D_2F_1$) embryos were cultured in triplicate micro drops of culture medium overlaid with oil:

15 / 15 (100 %)	1-cell to 2-cell within 24 hr
15 / 15 (100 %)	1-cell to expanded blastocyst within 96 hr

For a valid assay, Embryotech™ requires at least 70% of 1-cell control embryos to develop to expanded blastocyst within 96-hours.

Test assay method and results: 21 1-cell ($B_6C_3F_1$ X $B_6D_2F_1$) embryos were cultured in triplicate micro drops of culture medium overlaid with the test article adhered to the outside of a culture plate:

21 / 21 (100 %)	1-cell to 2-cell within 24 hr
21 / 21 (100 %)	1-cell to expanded blastocyst within 96 hr

Summary of observations: All test and control embryos were selected randomly from a common pool of freshly collected embryos. 100 percent of the control embryos developed to the expanded blastocyst stage within 96-hours. 100 percent of the test embryos cultured in the culture plate with the test articles adhered developed to the expanded blastocyst stage within 96-hours

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