

**QC****Certificate of Analysis**

**REQUESTED BY:** GENESIS EMBRYOLOGY PVT.LTD (1st Floor,78/2/4,Vadsar Road,, GIDC Makarpura 390010 Vadodara India)

**ASSAY REQUESTED BY CUSTOMER:** MEA - Standard Mouse embryo assay

**OPERATION PROCEDURE:** SOP-MEA-00/WI-MEA-05

**TYPE OF ASSAY:** Indirect

**INTERNAL NUMBER:** MEA.022.667.2024

**DATE:** 17/04/2024 - 21/04/2024

Product information provided by the customer (Embryotools cannot be held responsible for the veracity of this information)

**DESCRIPTION OF TEST PRODUCT:** Genesis Embryology 14ML Round Bottom Tube

**REF:** RT140202

**LOT NUMBER:** 01020202

**EXP. DATE:** 09/2026

**PROTOCOL:**

Sample was exposed to previously tested culture medium and incubated for 60 minutes at 37°C. Culture dishes were prepared with the extracted medium in triplicate and equilibrated overnight prior to use. Fresh 1-cell stage mouse embryos were collected from F1 hybrid females (B6/CBA) crossed with males from the same genetic background, washed thoroughly and cultured in the extracted medium in drops of 50ul, in groups of 2, up to Day 5. Control group was prepared following the same set-up and conditions, and embryos cultured in parallel using tested medium not exposed to the sample. Embryo development of test and control group was followed every 24 h and photos were taken and included in this report (annex I).

**CONTROL AND TEST ASSAY RESULTS:**

Embryo developmental rates of control and tested group.

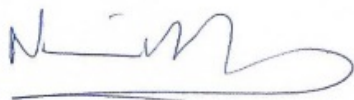
| Embryo development rates                                       |    |                               |                                          |                                                |                |
|----------------------------------------------------------------|----|-------------------------------|------------------------------------------|------------------------------------------------|----------------|
|                                                                | n  | Day 2<br>Two-cell stage n (%) | Day 5 Expanded<br>blastocyst stage n (%) | Good Quality (morphology)<br>Blastocysts n (%) | Result         |
| Control                                                        | 15 | 15 (100)                      | 13 (86.67)                               | 10 (76.92)                                     | <b>Passed*</b> |
| Genesis Embryology<br>14ML Round Bottom<br>Tube (Lot:01020202) | 21 | 21 (100)                      | 21 (100)                                 | 16 (76.19)                                     | <b>Passed*</b> |

**SUMMARY OF OBSERVATIONS:** All test and control embryos were selected randomly from a common pool and cultured at 37.3°C with a tri-gas atmosphere with optimal %CO<sub>2</sub> and %O<sub>2</sub>. Embryotools acceptance criteria for this standard test is that more than 80% of mouse embryos develop to the expanded blastocyst stage and pass a visual morphological examination of the inner cell mass (ICM) and trophectoderm (TE) cells. The results of this assay refer to the items tested.

\* More than 80% of the test group embryos developed to the expanded blastocyst stage within 5 days, fulfilling acceptance criteria for this test.

These results are representative of the test samples submitted by the customer.

Nuno Costa-Borges, PhD



Scientific Director

Gloria Calderón, PhD



Quality Assurance



Annex I  
Control

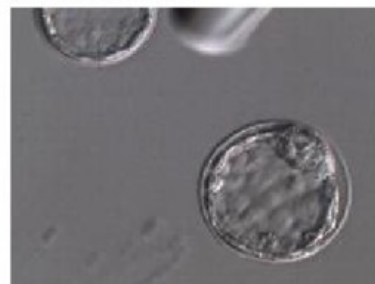
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#2, 21/04/2024 9:51:16



#3, 21/04/2024 9:51:20



#4, 21/04/2024 9:51:29



#5, 21/04/2024 9:51:31



#6, 21/04/2024 9:51:49



#7, 21/04/2024 9:51:52



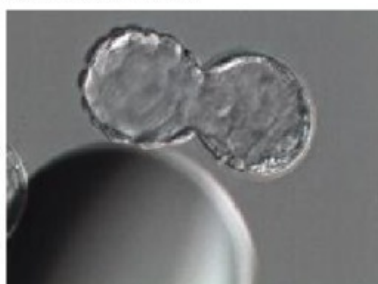
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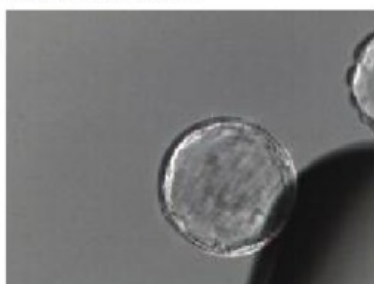
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#10, 21/04/2024 9:52:21



#11, 21/04/2024 9:52:24



#12, 21/04/2024 9:52:31



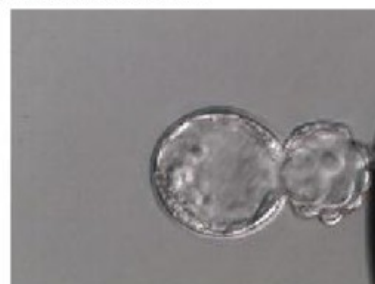
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#14, 21/04/2024 9:52:49



#15, 21/04/2024 9:53:10



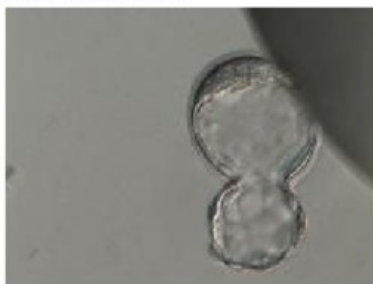


Genesis Embryology 14ML Round Bottom Tube  
(REF: RT140202 ; Lot: 01020202)

#1, 21/04/2024 9:53:53



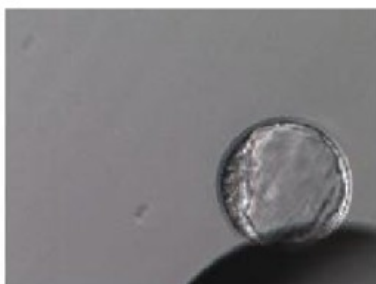
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#3, 21/04/2024 9:54:11



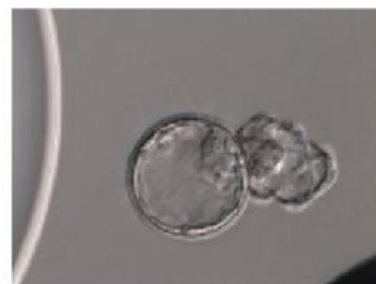
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#6, 21/04/2024 9:54:41



#7, 21/04/2024 9:54:45



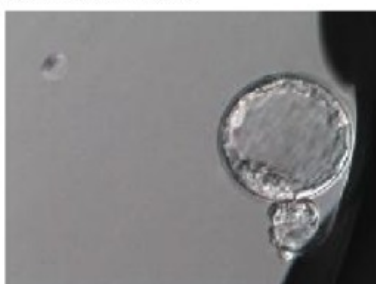
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#11, 21/04/2024 9:55:21



#12, 21/04/2024 9:55:36





Genesis Embryology 14ML Round Bottom Tube  
(REF: RT140202 ; Lot: 01020202)

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#15, 21/04/2024 9:56:13



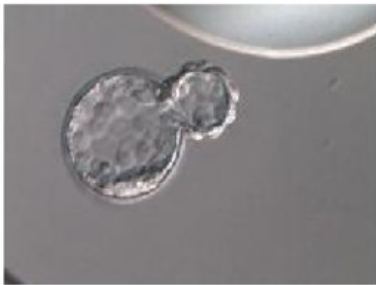
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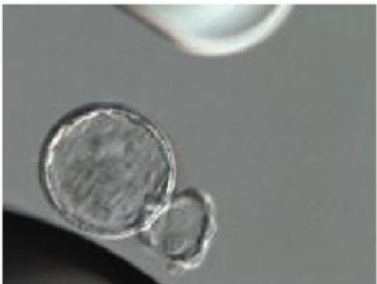
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#19, 21/04/2024 9:57:54



#20, 21/04/2024 9:58:03



#21, 21/04/2024 9:58:08

