embryotools
Parc Científic de Barcelona // Avda. Doctor Marañón, 8
08028 Barcelona, Spain
NIF B66034612 // info@embryotools.com
Phone: + 34 934 497 198

QC

Certificate of Analysis

REQUESTED BY: ZEUS BIOSCIENCE (Cinnah Str., Apt. 47/1, Cankaya, Ankara 06690 Turkey)

ASSAY REQUESTED BY CUSTOMER: MEA - Standard Mouse embryo assay

OPERATION PROCEDURE: SOP-MEA-00/WI-MEA-05
TYPE OF ASSAY: Direct
INTERNAL NUMBER: MEA.015.339.2020
DATE: 29/09/2020 - 03/10/2020

DESCRIPTION OF TEST PRODUCT: Electroliquid Solution
REF: ZES100001
LOT NUMBER: ZES100001
EXP. DATE: N/A

PROTOCOL:

Culture dishes were prepared in triplicate with test medium and previously tested culture medium and equilibrated overnight under optimal temperature, %CO2 and %O2 conditions, 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 incubated in test medium for 60 minutes at 37ºC. Afterwards, embryos were transferred to previously tested culture medium microdroplets, washed thoroughly and cultured up to day 5. Control group was prepared following the same set-up and conditions, using previously tested medium without exposure to the test sample. Embryo development of test and control group was followed every 24h up to day 5, and photos of their final stage 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 Two-cell stage n (%)	Day 5 Expanded blastocyst stage n (%)	Good Quality (morphology) Blastocysts n (%)	Result
Control	15	15 (100)	14 (93.33)	10 (71.43)	**Passed***
Electroliquid Solution (Lot:ZES100001)	21	21 (100)	20 (95.24)	16 (80)	**Passed***

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 %CO2 and %O2. 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.

Nuno Costa-Borges, PhD

Scientific Director

Gloria Calderón, PhD

Quality Assurance

CS-MEA-06 (rev 05, updated 2018-07-30) Published Monday 1st of February 2021 04:20:24 PM Etc/UTC

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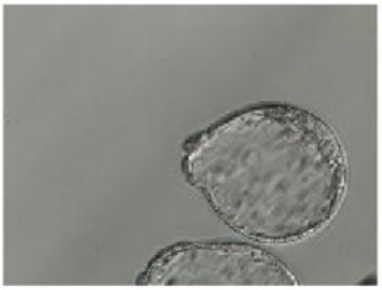
Annex I
Control

#1, 03/10/2020 9:41:07



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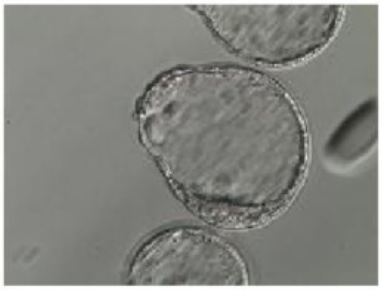

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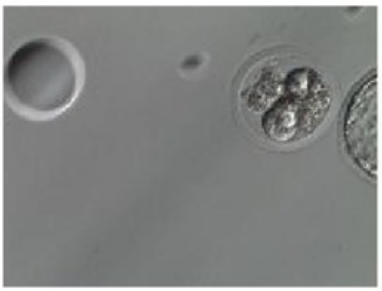

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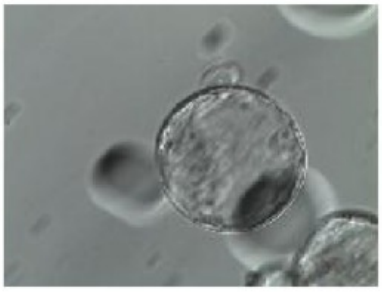
#6, 03/10/2020 9:42:05

#7, 03/10/2020 9:42:09

#8, 03/10/2020 9:42:49



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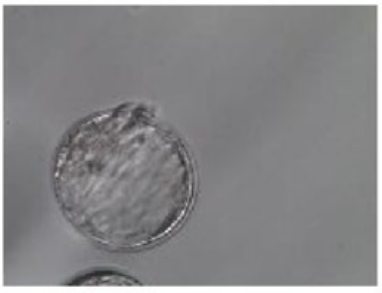

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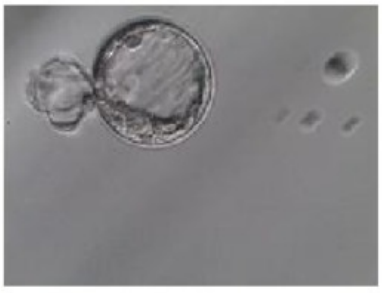

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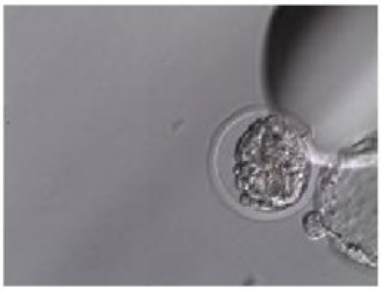

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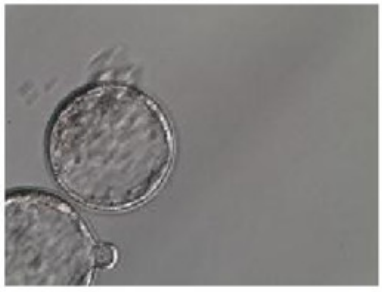
#14, 03/10/2020 9:44:16

#15, 03/10/2020 9:44:20



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Electroliquid Solution
(REF: ZES100001 ; Lot: ZES100001)

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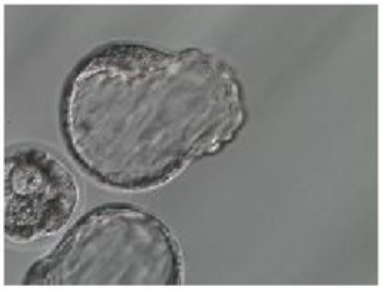

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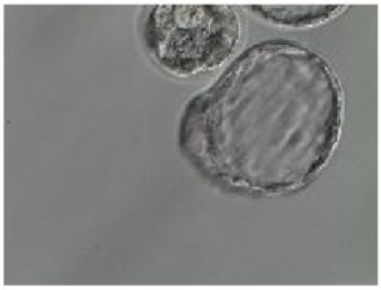

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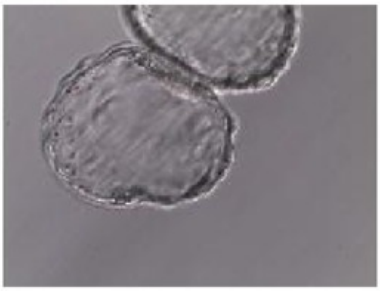
#6, 03/10/2020 9:33:37

#7, 03/10/2020 9:33:41



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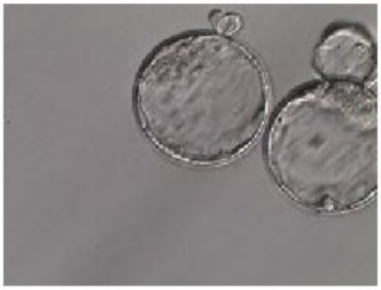

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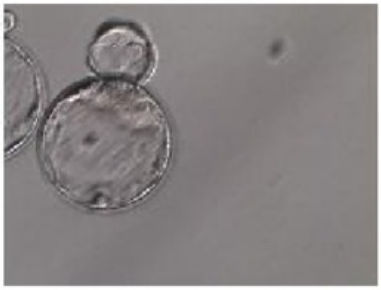

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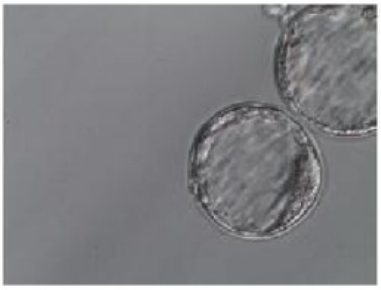

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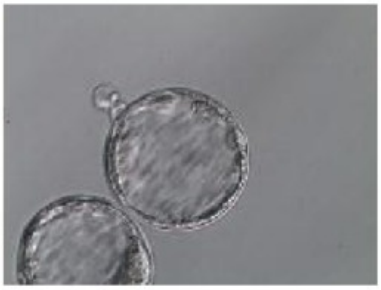

#12, 03/10/2020 9:35:00

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Electroliquid Solution
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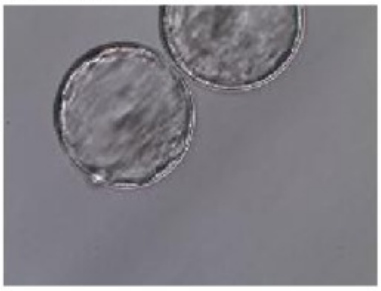
#13, 03/10/2020 9:35:03

#14, 03/10/2020 9:35:23



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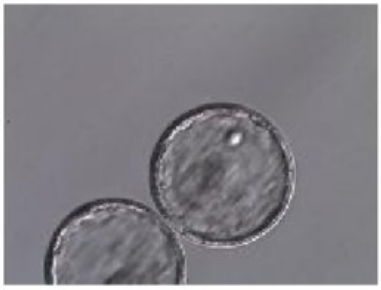

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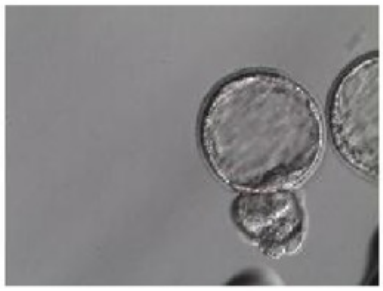

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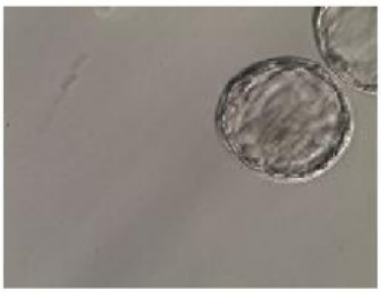

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