

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 37°C. 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:

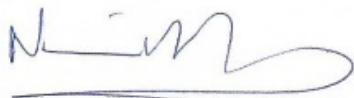
Embryo developmental rates of control and tested group.

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.

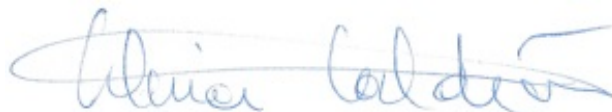
* More than 80% of the test group embryos developed to the expanded blastocyst stage within 5 days, fulfilling acceptance criteria for this test.

Nuno Costa-Borges, PhD



Scientific Director

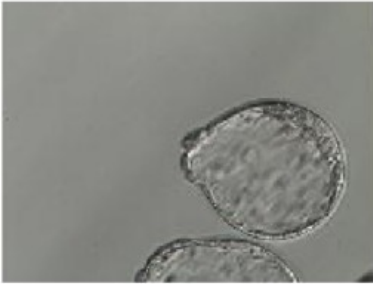
Gloria Calderón, PhD



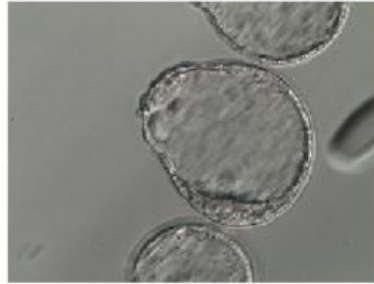
Quality Assurance

Annex I
Control

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



#2, 03/10/2020 9:41:11



#3, 03/10/2020 9:41:14



#4, 03/10/2020 9:41:40



#5, 03/10/2020 9:41:44



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



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



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



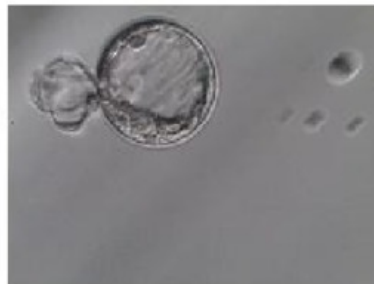
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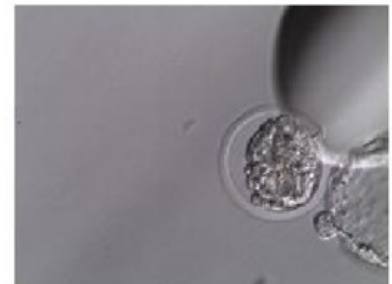
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#11, 03/10/2020 9:43:20



#12, 03/10/2020 9:43:39



#13, 03/10/2020 9:43:44



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

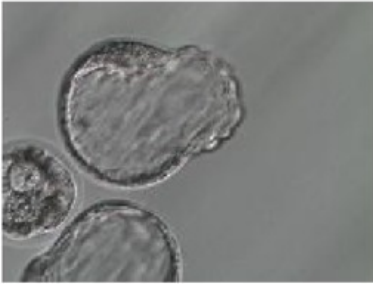


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Electroliquid Solution
(REF: ZES100001 ; Lot: ZES100001)

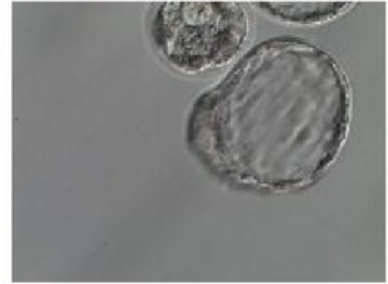
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#4, 03/10/2020 9:33:11



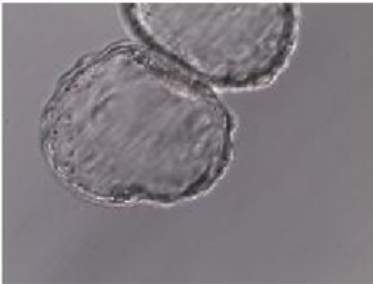
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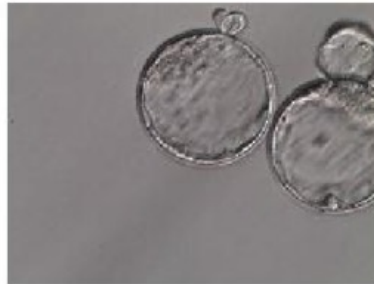
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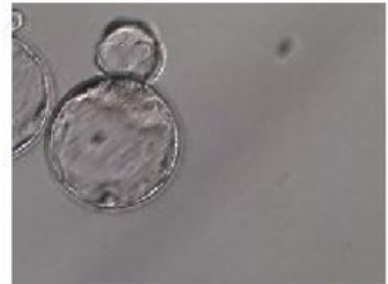
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#8, 03/10/2020 9:34:00



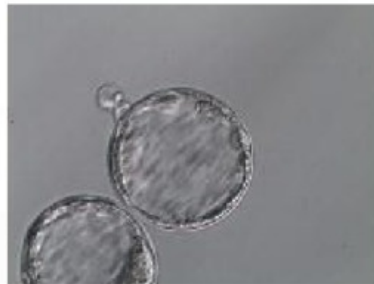
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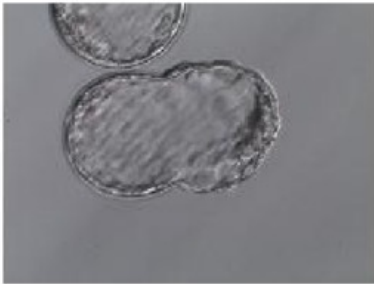


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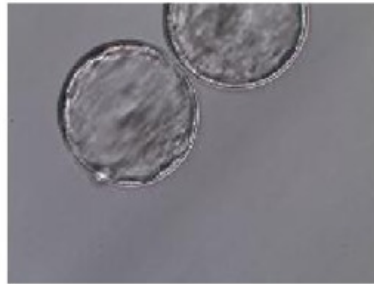


Electroliquid Solution
(REF: ZES100001 ; Lot: ZES100001)

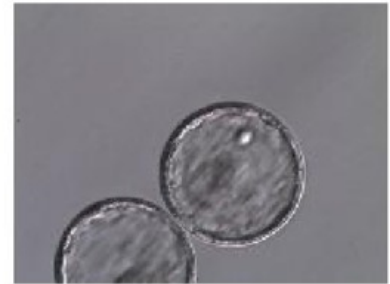
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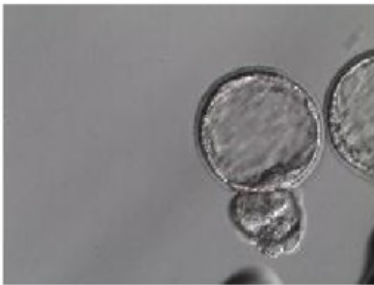
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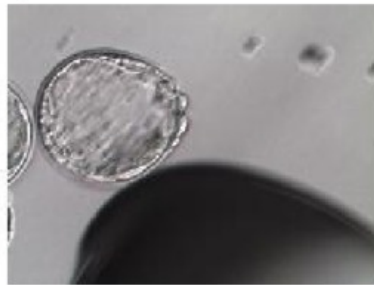
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#17, 03/10/2020 9:35:47



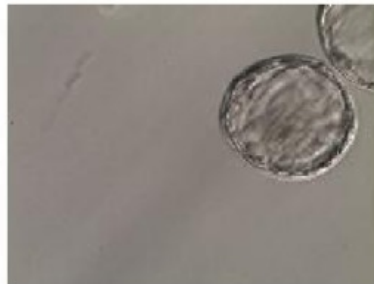
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#20, 03/10/2020 9:36:40



#21, 03/10/2020 9:36:45

