

CERTIFICATE

Certificate of mouse embryo assay (MEA) for HIGH SAFE disinfection



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A. PRINCIPIE:

- Measuring the effect of **HIGH SAFE** disinfection on mouse embryos regarding viability and blastocyst formation.

B. ASSAY PROCEDURES:

- Control:** We cultured number of randomly fresh collected zygotes of mouse in culture media in absence of HIGH SAFE disinfection at 37 °C in Thermo incubator.
- Test:** We cultured the same number of randomly fresh collected zygotes of mouse in culture media in presence of **HIGH SAFE** disinfection in a petri dish (Falcon 3004) at 37 °C in Thermo incubator during full cultivation time (120 hours).

C. RESULTS:

Items	Injected oocytes (D0)	Cleaved embryos (D3)	Blastocyst (D5)	Blastocyst Percentage (%)
Control	23	19	19	≥ 80 %
Test	23	19	19	≥ 80 %

D. OBSERVATION:

- Control:** ≥ 80 % of control mouse embryos were developed to expanded blastocyst stage within 120 hours.
- Test:** ≥ 80 % of tested mouse embryos cultured in an incubator in presence **HIGH SAFE** disinfection were developed to expanded blastocyst stage within 120 hours.

E. CONCLUSION:

- HIGH SAFE** disinfection has no effect on mouse embryo viability and blastocyst formation during full cultivation time (120 hours).

Signature

Date