

EmbryoMax[®] Advanced KSOM Embryo Media

Mouse Embryo Media

Cat. # MR-101-D

FOR RESEARCH USE ONLY.
NOT FOR USE IN DIAGNOSTIC PROCEDURES.
NOT FOR HUMAN OR ANIMAL CONSUMPTION.

pack size: 50 mL

Store at -20°C



Certificate of Analysis

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Description

EmbryoMax Advanced KSOM Medium is a new, uniquely buffered modified version of KSOM that can be used as a single medium to harvest and culture preimplantation mouse embryos. The medium will maintain pH out on the bench top and also grow embryos *in vitro*, replacing the normal 2-step system where one medium is used for embryo harvest and another is used for culture. The Advanced KSOM medium has been shown to produce a higher frequency of blastocyst formation in multiple mouse strains after 72 hours in culture when compared to standard KSOM medium.

Traditionally, retrieving and then growing mouse embryos *in vitro* is usually a 2-step system. Embryos are commonly removed from the oviducts in a HEPES buffered medium (e.g. M2, FHM), which maintain their pH in air. The embryos are then transferred into a second medium which is bicarbonate buffered (e.g. M16, CZB, KSOM) and placed in a CO₂ incubator in order to maintain the pH of the medium. Furthermore, the bicarbonate buffered medium needs to be pre-equilibrated in the incubator for several hours prior to receiving embryos to achieve optimal growth. The EmbryoMax Advanced KSOM Medium enables both embryo handling in atmospheric conditions and culturing in a CO₂ incubator with a single medium. No medium pre-equilibration step is necessary for embryo harvest, but pre-equilibration is recommended for culture.

Features and Benefits

- One medium for both embryo handling in atmospheric conditions and culturing in a CO₂ Incubator.
- Higher frequency of blastocyst formation across multiple mice strains
- No medium pre-equilibration step required

Quality Control

Each lot of Advanced KSOM is tested for the following criteria

Lot Acceptance Criteria:

- 3 Day *in vitro* Mouse Embryo Development: Reach 16-cell morula after 72 hours
- Concentration: 1X
- Appearance: Orange/Red Clear Liquid
- pH: 6.9-7.0
- Osmolality (mOsm): Report
- Mycoplasma: Not detected

Storage and Handling

Can be stored at -20°C up to the expiration date on the bottle. Once thawed it should be used within 2 weeks.

Note: Our EmbryoMax[®] Liquid Mouse Embryo Media is produced on a bi-monthly basis. For regular users, we encourage standing orders to ensure that backorders do not occur.

SPECIES LEGEND: H Human Ca Canine M Mouse R Rat Rb Rabbit B Bovine P Porcine WR Most Common Vertebrates

Please visit www.millipore.com for additional product information and references.

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Supporting Data

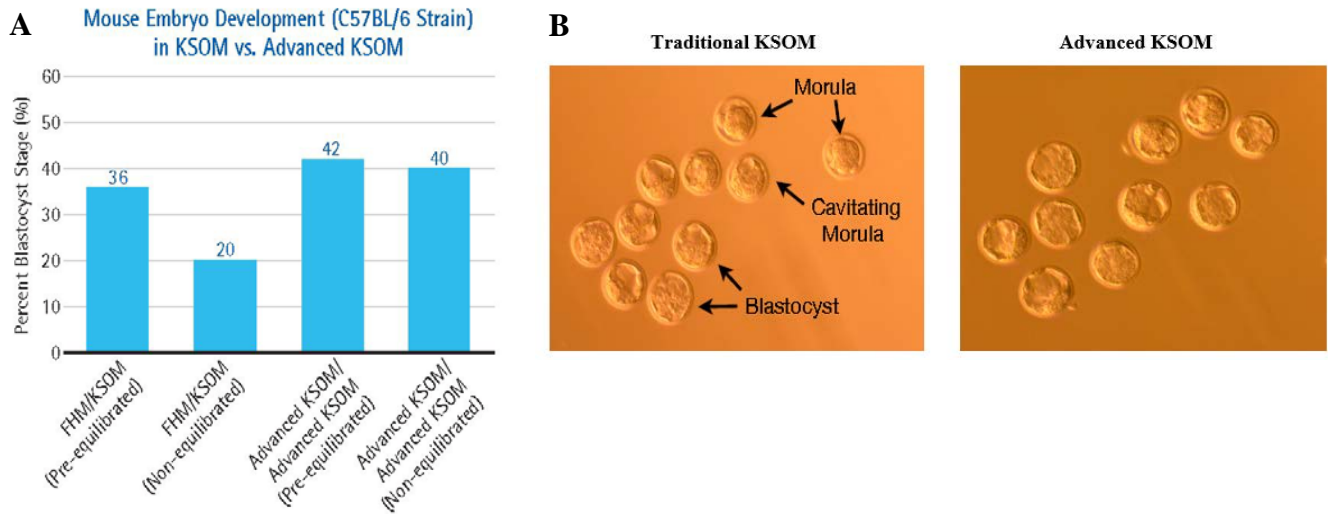


Figure 1. A) C57BL/6 mouse embryos develop into blastocyst stage at higher frequencies in Advanced KSOM embryo media vs. traditional KSOM embryo media. Additionally, Advanced KSOM embryo media does not require pre-equilibration of media in a CO₂ incubator. **B)** The majority of mouse embryos reach the blastocyst stage in Advanced KSOM after 72hrs in culture.

antibodies Multiplex products biotools cell culture enzymes kits proteins/peptides siRNA/cDNA products

Please visit www.millipore.com for additional product information, test data and references

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