

迈晨科技 M&C GENE TECHNOLOGY

PRODUCT DATASHEET

M2 Medium

Cell Culture Medium

Catalogue Number: CE003/CE004

Description: M16 and M2 are modified Krebs-Ringer bicarbonate solutions, which are similar to Whitten's Medium. M16 Medium is one of the most common media for *in vitro* culture of preimplantation stage embryos. M16 contains pyruvate and lactate as energy sources since preimplantation embryos do not utilize glucose efficiently. M2 Medium is a further modification of M16 that substitutes HEPES buffer in place of some of the bicarbonate. M2 is used for collecting and handling embryos for prolonged periods outside a CO₂ incubator.

Formulation: Ready-to-use, sterile filtered solution

Catalogue Number	CE003 (g/L)	CE004 (g/L)
Product	M2 Medium	M16 Medium
INORGANIC SALTS		
CaCl ₂ •2H ₂ O	0.251	0.251
MgSO ₄ (anhyd)	0.165	0.165
KCI	0.356	0.356
KH ₂ PO ₄	0.162	0.162
NaCl	5.532	5.532
NaHCO ₃	0.35	2.101
OTHER		
Albumin, Bovine Fraction V	4.0	4.0
D-Glucose	1.0	1.0
HEPES	5.43	_
Phenol Red•Na	0.01	0.01
Pyruvic Acid•Na	0.036	0.036
Lactic Acid•Na	4.35	4.35
SPECIFICATIONS		
рН	7.4±0.3	7.4±0.3
Osmolality (mOsm)	285±25	285±15

Pack Size: 100 mL

Storage/Stability: 4°C for 6 months from the date of shipping.

References:

- 1. Whitten, W.K. (1971) Embryo medium: Nutrient requirements for the culture of preimplantation embryos in vitro. Adv. Biosci., 6: 129-141.
- 2. Quinn, P., Barros, C., and Whittingham, D.G. (1982) Preservation of hamster oocytes to assay the fertilizing capacity of human spermatozoa. J. of Reprod. Fertil., 66: 161-168.
- 3. Hogan, B., Costantini, F., and Lacy, E. (1986) Manipulating the Mouse Embryo. Cold Spring Harbor Laboratory. Cold Spring Harbor, NY. Section G, pp. 249-252.

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES



M&C Gene Technology • Phone: (010)8205-7786 • (010)8693-7385 • Fax: (010)8205-9875

E-mail: order@macgene.com • Tech Support: support@macgene.com • URL: http://www.macgene.com