

# M16添加牛磺酸和EDTA支持昆明白小鼠体外受精并发育至囊胚 M16 Added with Taurine and EDTA Can Support the IVF and in vitro Development to Blastocyst of Kunming Strain Mouse

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**摘要** 在以往研究工作的基础上证明了通过添加2.5mmol/L的牛磺酸和0.1mmol/L的EDTA至M16培养液中,可支持昆明白小鼠的体外受精(IVF),并支持受精卵突破2-细胞阻滞发育至囊胚期。本研究进一步证明了牛磺酸和EDTA在昆明小鼠早期胚胎发育和克服2-细胞阻滞中起关键作用。

**Abstract:** The results of our early experiments show that the 2-cell block can be overcome by culturing zygote in modified M16, modified CZB and TE medium. Our research shows that the taurine and EDTA play key role in overcoming 2-cell block in Kunming mouse. The results show that the addition of taurine and EDTA to M16 medium can support the IVF and development to blastocyst in vitro in Kunming strain mice. This is the first report that M16 medium added with taurine and EDTA can be used in both IVF and culture medium to overcome the 2-cell block of embryo development in Kunming strain mouse.

**关键词** [昆明鼠](#) [体外受精](#) [2-细胞阻滞](#) [牛磺酸](#) [EDTA](#) **Key words** [Kunming strain mouse](#) [IVF](#) [2-cell block](#) [taurine](#) [EDTA](#)

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## Abstract

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