

论著

用Ames法和致畸试验研究醋氨己酸锌的遗传毒性

马明福¹ 李练兵¹ 曾维三¹ 徐小丽¹ 王治乔²

¹重庆市计划生育科学研究所 重庆 400020 ²军事医学科学院毒物药物研究所 北京 100850

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摘要 用Ames试验和致畸试验对醋氨己酸锌进行了致突变和致畸作用研究。结果表明醋氨己酸锌在Ames试验的TA97、TA98、TA100和TA102 4个标准菌株±S9mix条件下,1-5000μg/皿6个剂量的标准平皿掺入试验中,未诱发各菌株阳性突变反应。小鼠致畸试验32179mg/kg·bw、262134mg/kg·bw和524167mg/kg·bw剂量组,在母鼠妊娠期6-15d p.o给药,各剂量组活胎率与溶剂对照组比较,无显著差异(P>0.105)。对胎鼠外观、骨骼和内脏无致畸作用。但524167mg/kg·bw组对妊娠母鼠体重、胎鼠体重和尾长有影响,显示一定的母体和胚胎毒性。

关键词 [醋氨己酸锌](#) [突变](#) [致畸作用](#)

STUDY ON THE GENOTOXICITY OF ZINC ACEXAMATIE BY THE AMES TEST AND TERATOGENIC TEST

Ma Mingfu¹, Li Lianning¹, Zeng Weishan¹, Xu Xiaoli¹, Wang Zhiqiao²

¹Chongqing Family Planning Scientific Research, Chongqing 400020, ²Institute of Pharmacology and Toxicology, Academy of Military Medical Sciences, Beijing 100850

Abstract This paper reported the research results of mutagenicity and teratogenicity effect of zinc acexamatie. The result showed that zinc acexamatie with doses level (1 - 5000μg/plate) did not induce positive mutations of strains TA97、TA98、TA100 and TA102 with or without S9mix in Ames test. It was divided into three groups of Zinc acexamatie received (po) dosages of 32.97mg/kg body weight, 262.34mg/kg body weight, 524.67mg/kg body weight on the 6th to 15th day of gestation mouse respectively in the teratogenic test. The frequency of live fetuses of each dose group were no significant difference as compared with solvent control group. It did not cause deformity of the fetus appearances, bone and internal organs. But there were significant differences between solvent control group and 524.67mg/kg group in the growth of body weight in gestation of mouse, body weight and tail length in fetus. The result showed that zinc acexamatie possess maternal toxicity and embryotoxicity.

Keywords [zinc acexamatie](#) [mutation](#) [teratogenic effect](#)

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