

检测研究

Ames实验对叶黄素的致突变性与抗突变性研究

王明臣¹; 张善锋¹; 毛红丽²; 金国平¹; 董子明¹

1. 郑州大学医学院生物化学与分子生物学教研室, 河南 郑州 450052; 2. 郑州大学一附院检验科, 河南 郑州 450052

收稿日期 2005-4-22 修回日期 2005-9-2 网络版发布日期:

摘要 背景与目的: 研究不同剂量的叶黄素致突变性、抗突变性及抗突变机理的初步分析。材料与方法: 采用Ames试验常规方法进行检测。结果: 1 335 μg/皿、668 μg/皿、334 μg/皿和167 μg/皿剂量的叶黄素对TA97、TA98、TA100和TA102菌株在加与不加S9条件下均无致突变性; 对TA98和TA100菌株具有显著的抗突变作用。结论: 在本实验条件下,叶黄素对Ames试验无致突变性, 且有显著的抗突变作用, 抗突变的机理为叶黄素具有综合的抗突变作用。

关键词 [叶黄素](#); [Ames试验](#); [抗突变](#)

Studies on the Safety and Antimutagenicity of Lutein

WANG Ming-chen¹; ZHANG Shan-feng¹; MAO Hong-li²; JIN Guo-ping¹; DONG Ziming¹

1. Department of Biochemistry and Molecular Biology, Medical College, Zhengzhou University, Zhengzhou 450052, China; 2. The First Affiliated Hospital of Zhengzhou University, Zhengzhou 450052, Henan, China

Abstract **BACKGROUND & AIM:** To study the effects of lutein on mutagenicity and antimutation anti-mutagenicity. **MATERIAL AND METHODS:** The studies were conducted with Ames test. **RESULTS:** In Ames test, the mutagenicity of Lutein group was no more than 2 times that of the control group. In test, comparing with positive group, Lutein groups could decrease the colonies in TA98 and TA100 strains. **CONCLUSION:** No mutagenicity was observed with lutein in this study. Moreover, we demonstrated that lutein possessed significant antimutagenic properties.

Keywords [Lutein](#) [Ames test](#) [anti-mutagenicity](#)

DOI

通讯作者 王明臣

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [\[PDF全文\]\(529k\)](#)
- ▶ [\[HTML全文\]\(34k\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [Email Alert](#)

相关信息

- ▶ 本刊中 [包含“叶黄素; Ames试验; 抗突变”的相关文章](#)
- ▶ 本文作者相关文章
- [王明臣;张善锋;毛红丽;金国平;董子明](#)