

# 中华蟾蜍肝苯丙氨酸tRNA的纯化及其生物活性

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收稿日期 修回日期 网络版发布日期 接受日期

**摘要** 本文介绍一种改进的酚抽法制备蟾蜍肝总tRNA和BD纤维素柱纯化tRNA phe的简例方法。270g 蟾蜍肝可制备466mg总tRNA。总tRNA的产率是未改进的酚抽法的8—11倍。总tRNA经两根BD纤维素柱纯化所得tRNA phe的酰化活力达1,354 pmoles苯丙氨酸/A 260 tRNA,它的荧光光谱测定表明,这个tRNA分子存在Y碱基。

**关键词**

**分类号**

## Isolation and Biological Activity of Phenylalanine tRNA from the Liver of the Toad (*Bufo bufo asiaticus*)

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### Abstract

A modified method for preparation of the total tRNA from toad liver by phenol extraction and a method for purification of the tRNA phe by BD-cellulose chromatography are described in this paper. 466mg total tRNA can be obtained from 270g of the toad liver. The yield of the total tRNA obtained with our method is 8—11 times greater than that with unmodified method. The tRNA phe was purified by two columns of BD-cellulose. The accepting activity is 1,354 pmoles phenylalanine/A260 tRNA. The presence of Y residue in the toad liver tRNA phe is demonstrated by fluorescent spectrum.

### Key words

DOI:

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### 扩展功能

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