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4种榕树总RNA提取方法的比较

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Comparison of different total RNA isolation methods for four Ficus species

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摘要

用Trizol法、SDS-LiCl法、改良CTAB法分别对对叶榕 (*Ficus hispida*)、聚果榕 (*Fracemosa*)、高榕 (*F altissima*)、苹果榕 (*Foligadon*) 4种榕树叶片提取总RNA。通过紫外吸光值及甲醛变性凝胶电泳检测,结果显示: Trizol法只适合于对叶榕总RNA的提取,在其余3种榕树中不能提得; SDS-LiCl法可以从除苹果榕外的其余3种榕树中提取到总RNA,但是质量和产量都不高,有比较明显的降解;改良CTAB法对4种榕树的总RNA提取效果都比较好,通过northern杂交检验,杂交条带清晰,说明RNA质量达到了后续杂交实验的要求。另外,改良CTAB法在提取RNA的同时还可以得到较好质量的DNA。改良CTAB法简单、经济,适合于榕树总RNA的大量提取,并可实现RNA, DNA的同时提取。

关键词: [总RNA提取方法](#) [4种榕树](#) [改良CTAB法](#) [Trizol法](#) [SDS-LiCl法](#)

Abstract:

Using Trizol, SDS-LiCl and improved CTAB methods, total RNA were isolated from four Ficus species that they are *F hispida*, *F racemosa*, *F altissima* and *F. oligadon*. Via OD value and Gel electrophoresis test, the results showed that Trizol method is applicable for total RNA isolation only for *F hispida* in the four species, while the SDS-LiCl method failed to extract total RNA from *F oligadon* and the yield and the quality for the other three species were low, the improved CTAB method can isolate high quality total RNA from all the four species, and further Northern blot analysis testified the integrality of RNA isolated by the improved CTAB method. It was also found that the improved CTAB method could get high quality total DNA during RNA isolation. In all, the improved CTAB method is simple, economical and suitable for isolating total RNA from the Ficus species.

Key words:

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