

Biospin Plant Total RNA Extraction Kit

Product Introduction

The kit is a ready-to-use reagent for the isolation of total RNA from plant tissue with polysaccharide and polyphenol. Add lysis to the processed sample and transfer the mixture to spin column, and then total RNA can be easily isolated through several washing and eluting steps. The kit provides a very simple, fast and economical technique to isolate high quality RNA, and can go high-throughput. The pure RNA can be applied extensively in northern blot, blotting hybridization, poly(A)+selection, in vitro translation, RNase protect assay, Real-Time PCR analysis, construction cDNA library etc.

Features

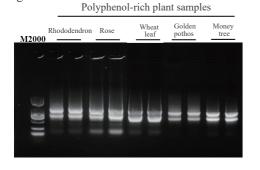


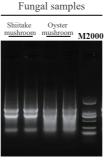
- Fast and efficient: Sample purification completed in 9 minutes and 30 seconds.
- **High safety:** Safe and free from toxic reagents (no β -mercaptoethanol, phenol, chloroform, etc.).
- Versatility: A single lysis solution applicable to RNA extraction from various plants (polysaccharide and polyphenol-rich plants, dried seeds, fungi, etc.).

Application cases

Case 1

Extracted samples from various plant species were subjected to Nanodrop and electrophoresis analysis, with the results shown in the figure below.





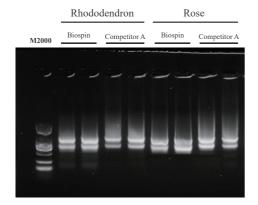




Sample Classification	Sample Name	Concentration (ng/uL)	A260/A280	A260/A230
Polyphenol-Rich Plant Samples	Rhododendron	374.74	1.90	1.97
		375.36	1.89	1.95
	Rose	945.30	1.97	1.99
		947.20	1.97	1.95
	Wheat leaf	330.54	2.16	2.15
		358.55	2.16	2.21
	Golden pothos	85.45	2.09	2.15
		85.19	2.09	2.21
	Money tree	154.91	2.11	2.26
		160.15	2.11	2.28
Fungal Samples	Shiitake mushroom	486.43	2.22	2.54
		491.91	2.23	2.55
	Oyster mushroom	407.14	2.22	2.55
		404.41	2.22	2.54
Polysaccharide-Rich Plant Samples	Banana	39.82	2.02	1.41
		43.12	1.94	1.21
	Mango	23.34	1.93	0.70
		23.88	1.87	1.05
	Dragon fruit	26.78	2.10	1.41
		27.58	2.10	1.61
Dried Seed Samples	Soybean	282.09	2.18	2.26
		282.78	2.18	2.27
	Peanut	126.72	1.96	1.26
		128.65	1.96	1.27
	Sesame	120.27	2.01	1.58
		118.87	2.01	1.61

Case 2

Comparison of sample extraction between Rhododendron and Rose samples with similar domestic products, as shown in the following figure.



Product	Sample Name	Concentration (ng/uL)	A260/A280	A260/A230
Biospin	Rhododendron	374.74	1.90	1.97
		375.36	1.89	1.95
Competitor A		129.96	2.07	1.97
		134.75	2.07	1.97
Biospin	Rose	945.30	1.97	1.99
		947.20	1.97	1.95
Competitor A		382.1	2.14	2.28
		386.68	2.15	2.28

Note: The sample input for all samples was 50mg, and elution was performed with $50\mu L$ elution buffer.

Results: Results show that this reagent kit can stably and efficiently extract total RNA from various plant samples, with extraction efficiency superior to that of competitors.

Ordering Information

Product Name	Cat#	Package	Storage Condition
	BSC65T1A	10T	2-30°C
Biospin Plant Total RNA Extraction Kit	BSC65S1A	50T	
	BSC65M1A	100T	



Add: 1192 Bin An Rd., Hi-tech (Binjiang) District, Hangzhou, 310053, P.R.China Web: www.bioer.com **TECHNOLOGY** Tel: +86-571-87774513 Fax: +86-571-87774553 E-Mail: reagent@bioer.com.cn E-Date: 2024.02