

# ***Plant Total RNA Isolation Kit Plus***



# PRODUCT INTRODUCTION



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## Plant Total RNA Isolation Kit Plus

Complete the test within 30 minutes

The kit uses the spin column and formula developed by Foregene, which can efficiently extract high-purity and high-quality total RNA from various plant tissues with high polysaccharides or polyphenols content. It provides the DNA-Cleaning column that can easily remove genomic DNA from the supernatant and tissue lysate. RNA-only column can effectively bind RNA. The kit can process a large number of samples at the same time. The entire kit does not contain RNase, so the purified RNA will not be degraded. Buffer PRW1 and Buffer PRW2 can ensure that the RNA obtained is not contaminated by protein, DNA, ions, and organic compounds.



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## Plant Total RNA Isolation Kit Plus

50 Tests/200 Tests Box



### Product components

- ◆ Buffer PSL1, Buffer PS, Buffer PSL2
- ◆ Buffer PRW1, Buffer PRW2
- ◆ RNase-Free ddH<sub>2</sub>O, DNA-Cleaning Column
- ◆ RNA-Only Column

### Ordering information

Product Name	Ref No.	Specifications	Description
Plant Total RNA Isolation Kit Plus	RE-05021	50Preps	Rapid purification of high-quality total RNA from plant samples with high content of polysaccharide polyphenols
Plant Total RNA Isolation Kit Plus	RE-05024	200Preps	

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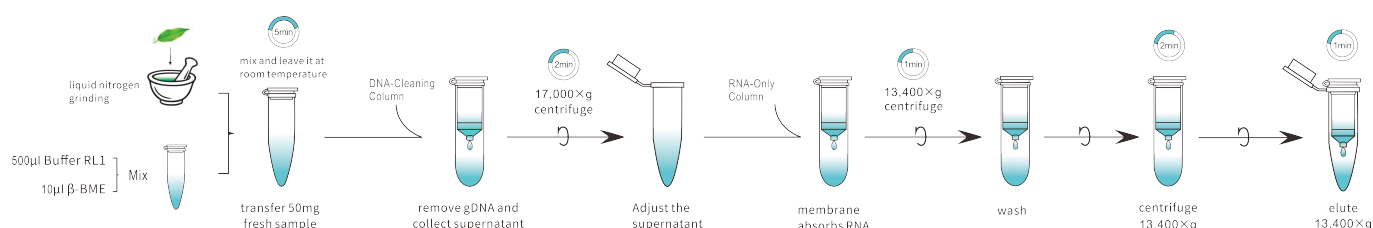


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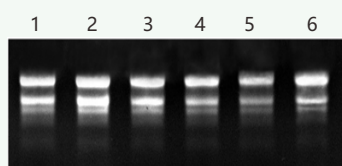
## Features&advantages

- ▲ Particularly suitable for the purification of RNA from plant samples with low polysaccharides and polyphenols content.
- ▲ No need to worry about RNA degradation. The whole system is RNase-Free
- ▲ Effectively remove DNA using DNA-Cleaning Column
- ▲ Remove DNA without adding Dnase
- ▲ Simple—all operations are completed at room temperature
- ▲ Fast—operation can be completed in 30 minutes
- ▲ Safe—no organic reagent used
- ▲ High quality—the purified RNA is highly pure, free of protein and other impurities, and can meet various downstream experimental applications.

## Operation process



## Experimental result



Plant Total RNA Isolation Kit

50mg of fresh plant leaves were treated and 5% purified RNA electrophoresis.

1:tobacco 2:tomato 3:soybean 4:corn 5:rape 6:rice

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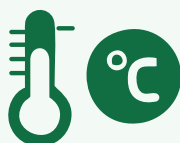


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## Advantages of foregene RNA isolation Kit

Tradtional TRIzol Method		Foregene Isolation Kits Method	
01	✗ Use toxic reagents such as Phenol and Chloroform	→	No toxic reagents added ✓ 01
02	✗ Complex operation and long extraction time	→	Simple operation, the whole process only need 11 mins ✓ 02
03	✗ Remove DNA contamination with DNase	→	No enzymes are added, use DNA cleaning column ✓ 03

## Preservation conditions



The kit can be stored for 24 months at room temperature (15-25°C), or 2-8°C for longtime. Buffer PSL1 can be stored at 4°C for 1 month after adding  $\beta$ -mercaptoethanol (it is recommended to add it at the same time as the experiment).

## Product application

**\*Plant Total RNA Isolation Kit Plus:**

It is suitable for the extraction and purification of total RNA from fresh or frozen plant tissue samples (especially fresh plant leaf tissue) with high polysaccharide or polyphenol content.

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## References

Chi Z, Dai Y, Cao S, et al. Exogenous calcium chloride ( $\text{CaCl}_2$ ) promotes  $\gamma$ -aminobutyric acid (GABA) accumulation in fresh-cut pears. *Postharvest Biology and Technology*, Volume 174, 2021, 111446, ISSN 0925-5214. doi:10.1016/j.postharvbio.

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**IF: 3.3 (Foregene #RE-06114)**

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# COMPANY PROFILE



# FOREGENE

Foregene is specialized in the IVD kits and the lab reagents products ,which is integrated in R&D, manufacturing and marketing together. Foregene has the world's leading Direct PCR platform. The main products include various IVD kits, nucleic acid purification reagents, PCR and Direct PCR reagents, Genotyping kits, etc. The technology and product performance indicators used are all leading the world status, widely applied in hospitals, institutions, medical laboratories, etc.



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