



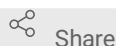
Version 2 ▼

Aug 24, 2022

# Wet Chemistry RNA Isolation Method for Mature Cassava Leaf Tissue V.2

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1 Works for me



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## ABSTRACT

RNA extraction protocol for cassava for RNA of sufficient quality and quantity to perform RT-PCR gene expression studies.

\*Low recovery was achieved using Qiagen RNeasy kit. Typical recoveries using the mini protocol outlined here yielded 500-1300 ng/ul RNA from ~ 75 mg leaf tissue.\*

## ATTACHMENTS

Cassava RNA  
Extraction.docx

## EXTERNAL LINK

<https://febs.onlinelibrary.wiley.com/doi/10.1002/2211-5463.12561>

## PROTOCOL CITATION

Lynn Doran 2022. Wet Chemistry RNA Isolation Method for Mature Cassava Leaf Tissue. **protocols.io**

<https://protocols.io/view/wet-chemistry-rna-isolation-method-for-mature-cass-cfrqtm5w>

Version created by Lynn Doran



MANUSCRIPT CITATION please remember to cite the following publication along with this protocol

Behnam, Babak, Adriana Bohorquez-Chaux, Oscar Fernando Castaneda-Mendez, Hiroyuki Tsuji, Manabu Ishitani, and Luis Augusto Becerra Lopez-Lavalle. "An Optimized Isolation Protocol Yields High-Quality RNA from Cassava Tissues (Manihot Esculenta Crantz)." FEBS Open Bio 9, no. 4 (2019): 814–25. <https://doi.org/10.1002/2211-5463.12561>.

## KEYWORDS

RNA, RNA Extraction, Cassava

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69136

#### SAFETY WARNINGS

- This protocol uses [chemical fume hoods](#) and [centrifuges](#). Understand how to safely and appropriately use them before performing the protocol.
- Perform all steps within a fume hood and collect tips and tubes in the hazardous material collection bins.  $\beta$ -mercaptoethanol ( $\beta$ -ME) included in the extraction buffer is toxic, harmful to the environment and corrosive. Collect hazardous waste and [submit to UIUC DRS](#) following proper protocol.
- Some of the chemicals used in this protocol pose serious health risks. Please read all manufacturer safety data sheets before handling. UIUC personnel performing this protocol should be current on "[Laboratory Safety](#)", "[Chemical Safety- An Introduction](#)", and "[Chemical Spills](#)" [Division of Research Safety](#) training modules before performing this protocol.