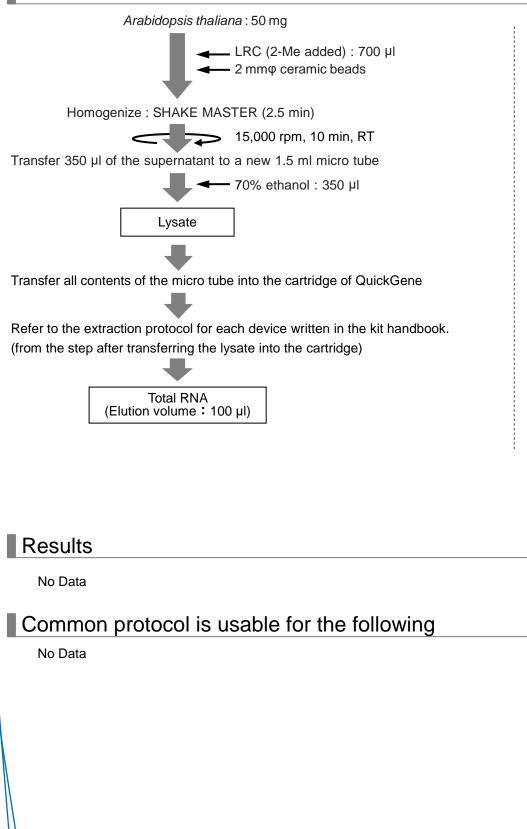
13. Total RNA Extraction from Tissue of Plant



Total RNA Extraction from Arabidopsis Thaliana



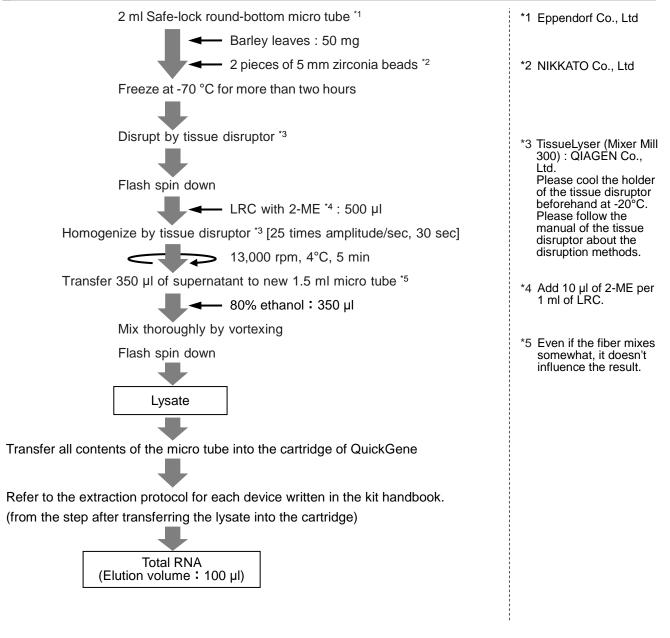






Total RNA Extraction from Barley Leaves

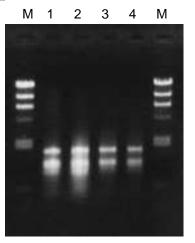








Electropherogram



Electrophoresis condition 0.8% Agarose gel TAE Buffer 2 μ I of sample / well M : λ -*Hind* III (100 ng) 1 : Wheat leaves (gramineae)

- 2 : Barley leaves (gramineae)
- 3 : Chenopodium quinoa leaves (Chenopodiaceae)
- 4 : Nicotiana benthamiana leaves (solanaceae)

The yield of Total RNA / Protein contamination: A260/280

Sample	Yield (µg)	A260/280
Barley leaves	12.2	2.12

Common protocol is usable for the following

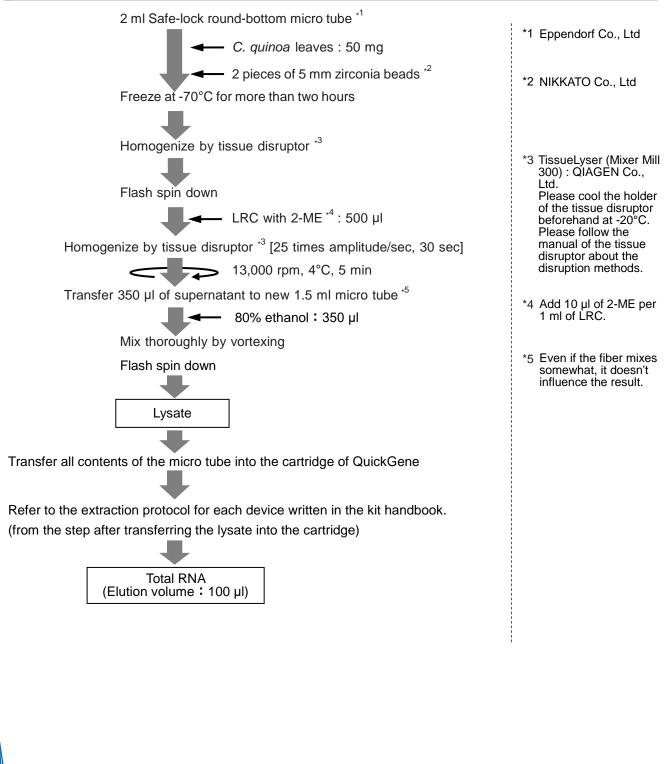
N. benthamiana leaves, C. quinoa leaves, Wheat leaves





Total RNA Extraction from C. quinoa Leaves

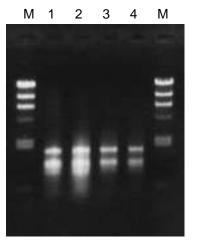








Electropherogram



Electrophoresis condition 0.8% Agarose gel TAE Buffer 2 µl of sample / well

- M : λ -Hind III (100 ng)
- 1 : Wheat leaves (gramineae)
- 2 : Barley leaves (gramineae)
- 3 : Chenopodium quinoa leaves (Chenopodiaceae)
- 4 : Nicotiana benthamiana leaves (solanaceae)

The yield of Total RNA / Protein contamination: A260/280

Sample	Yield (µg)	A260/280
C. quinoa leaves	3.88	2.02

Common protocol is usable for the following

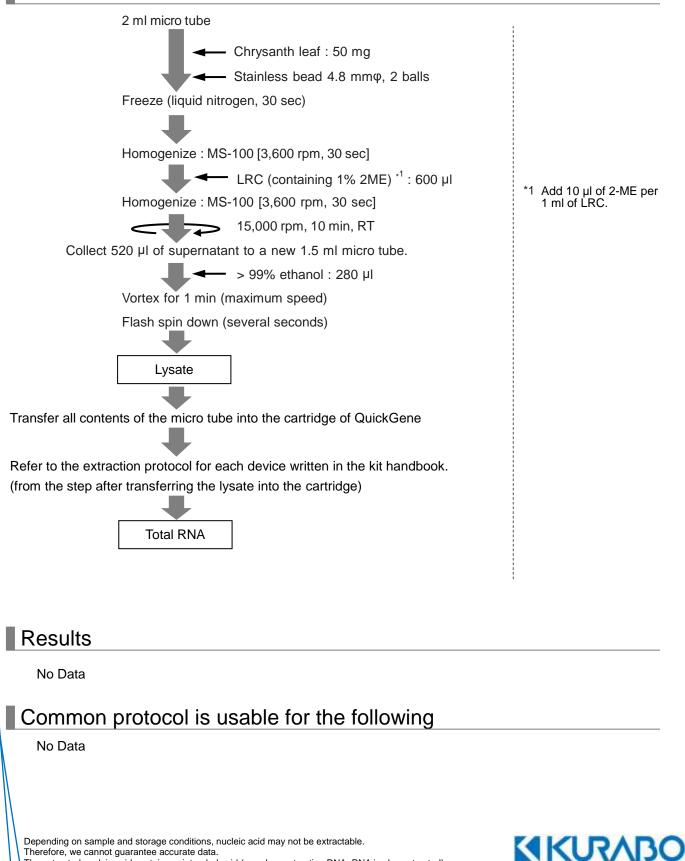
N. benthamiana leaves, Barley leaves, Wheat leaves





Total RNA Extraction from Chrysanth Leaf

Protocol

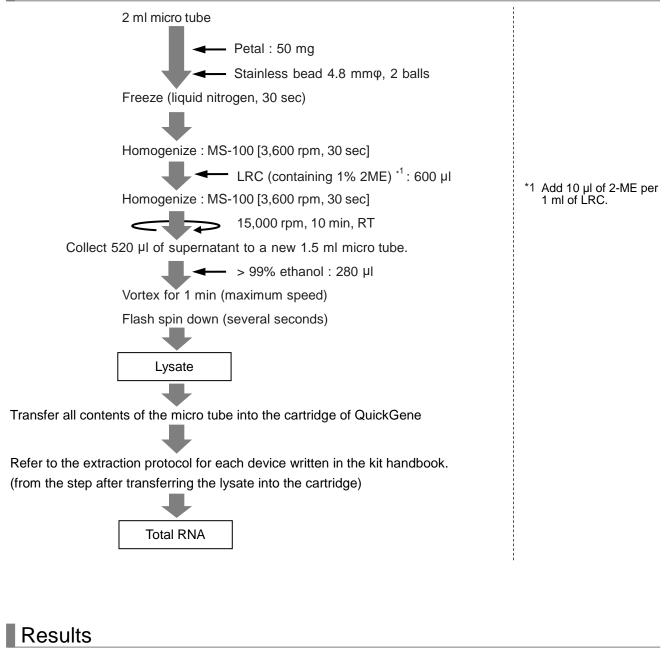


Therefore, we cannot guarantee accurate data. The extracted nucleic acid contains unintended acid (ex: when extracting DNA, RNA is also extracted).



Total RNA Extraction from Petal

Protocol



No Data

Common protocol is usable for the following

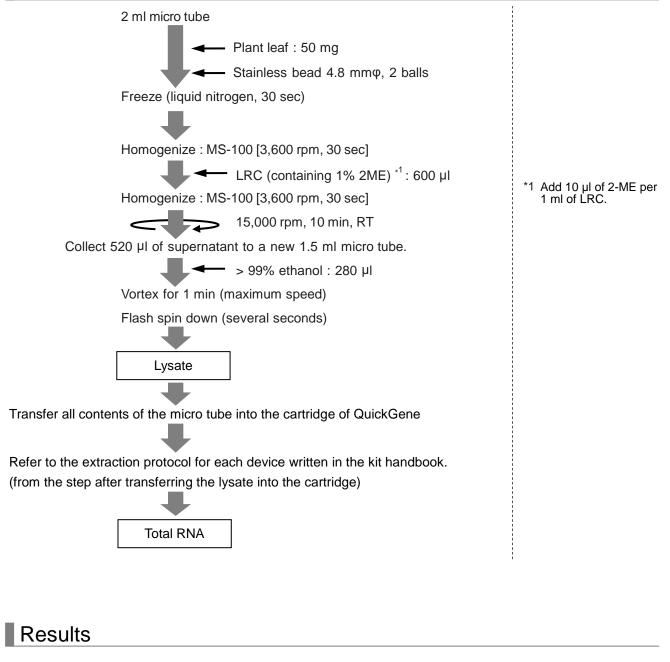
No Data





Total RNA Extraction from Plants

Protocol



No Data

Common protocol is usable for the following

No Data

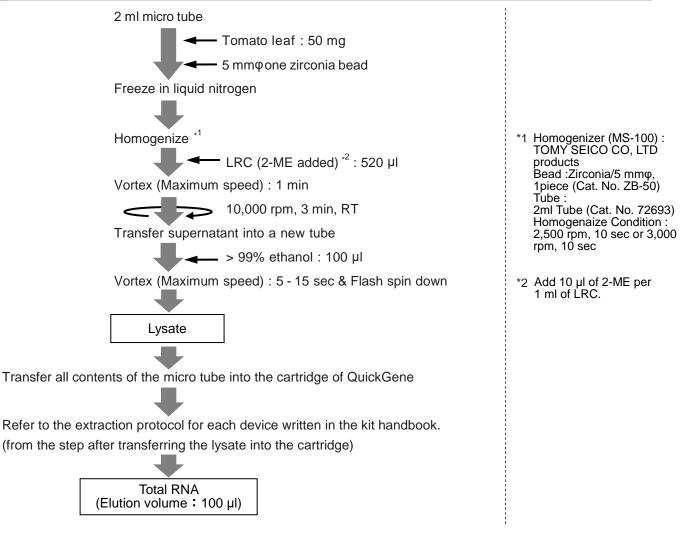




uickGene

Total RNA Extraction from Tomato Leaf

Protocol



Results

The yield of total RNA / Protein contamination : A260/280 / Chaotropic salt contamination : A260/230

	ount of ato leaf	Yield (µg)	Average of Yield (µg)	A260/280	Average of A260/280	A260/230	Average of A260/230
25		6.3	5.0	2.03	0.00	1.55	4.54
25 mg	4.2	5.3	2.02	2.02	1.62	1.54	
50 mg	9.2	7.8	2.01		1.62		
	6.2		2.00	2.00	1.66	1.65	
	8.0		1.99		1.66		

Common protocol is usable for the following

No Data

Depending on sample and storage conditions, nucleic acid may not be extractable. Therefore, we cannot guarantee accurate data.

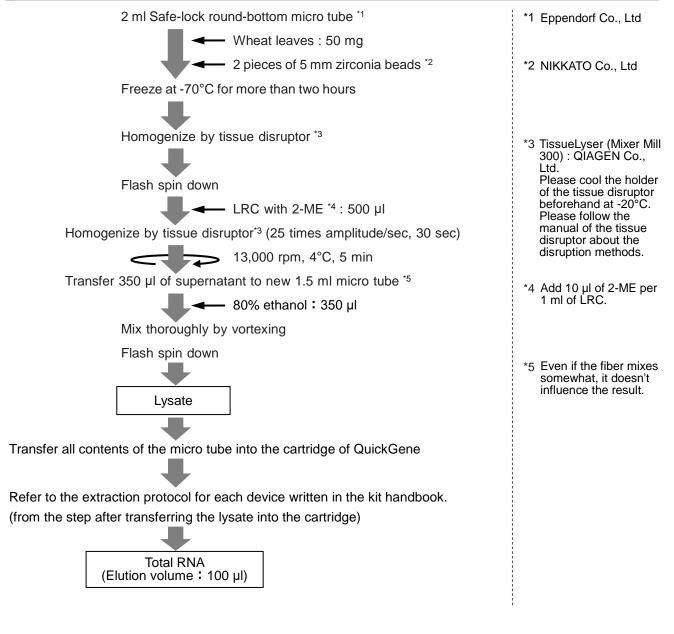
The extracted nucleic acid contains unintended acid (ex: when extracting DNA, RNA is also extracted).





Total RNA Extraction from Wheat Leaves

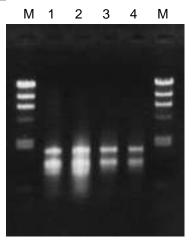








Electropherogram



Electrophoresis condition 0.8% Agarose gel TAE Buffer 2μ I of sample / well M : λ -*Hin*d III (100 ng) 1 : Wheat leaves (*gramineae*)

- 2 : Barley leaves (gramineae)
- 3 : Chenopodium quinoa leaves (Chenopodiaceae)
- 4 : Nicotiana benthamiana leaves (solanaceae)

The yield of Total RNA / Protein contamination: A260/280

Sample	Yield (µg)	A260/280	
Wheat leaves	6.12	2.11	

Common protocol is usable for the following

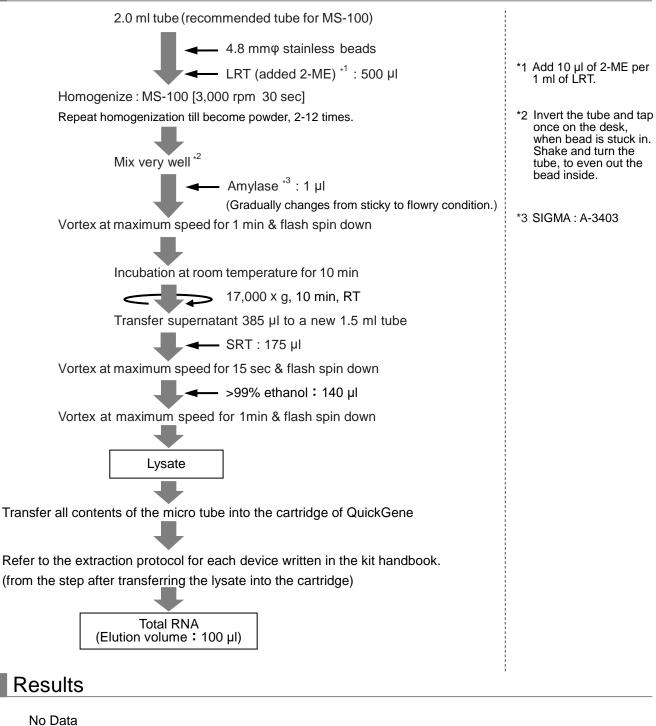
N. benthamiana leaves, Barley leaves, C. quinoa leaves





Total RNA Isolation from Amaranthus seeds





Common protocol is usable for the following

No Data

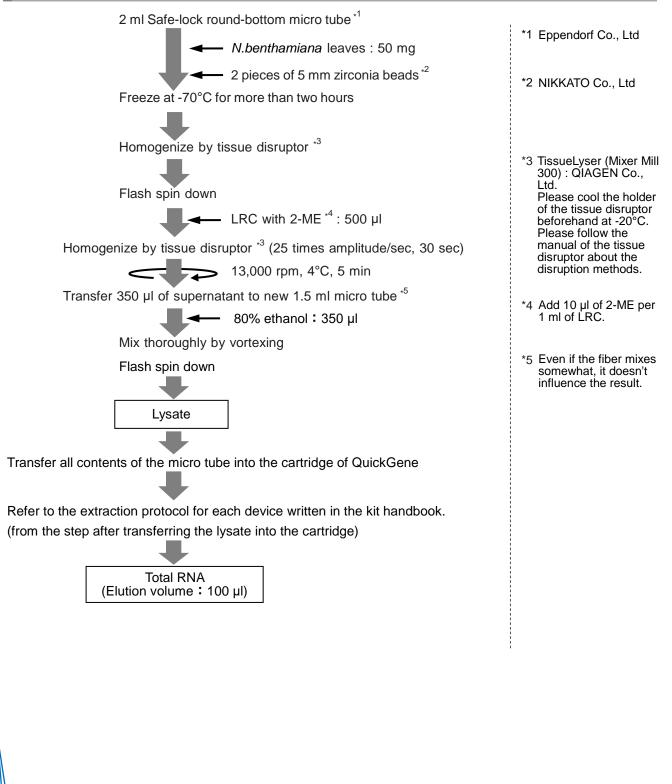
Depending on sample and storage conditions, nucleic acid may not be extractable. Therefore, we cannot guarantee accurate data. The extracted nucleic acid contains unintended acid (ex: when extracting DNA, RNA is also extracted).

KURABO



Total RNA Isolation from N. benthamiana Leaves

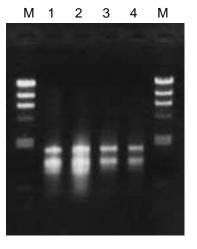








Electropherogram



Electrophoresis condition 0.8% Agarose gel TAE Buffer

2 µl of sample / well

- M : λ -*Hin*d III (100 ng)
- 1 : Wheat leaves (gramineae)
- 2 : Barley leaves (gramineae)
- 3 : Chenopodium quinoa leaves (Chenopodiaceae)
- 4 : Nicotiana benthamiana leaves (solanaceae)

The yield of Total RNA / Protein contamination : A260/280

Sample	Yield (µg)	A260/280	
N. benthamiana leaves	2.64	1.95	

Common protocol is usable for the following

Barley leaves, C. quinoa leaves, Wheat leaves



