

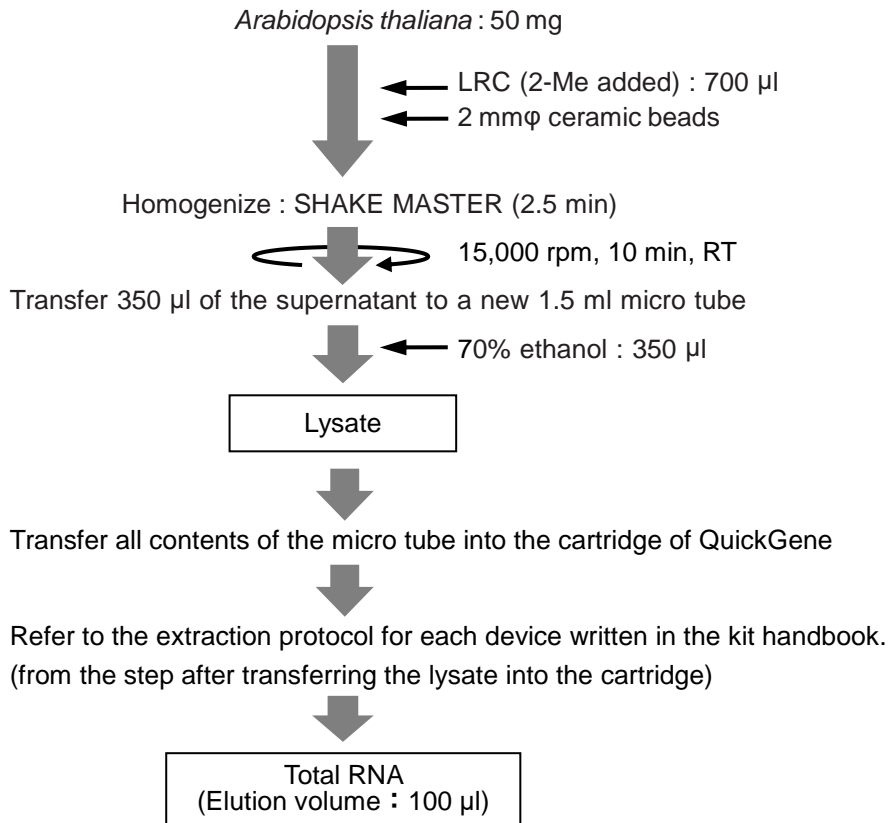


13. Total RNA Extraction from Tissue of Plant

RB-1

Total RNA Extraction from *Arabidopsis Thaliana*

Protocol



Results

No Data

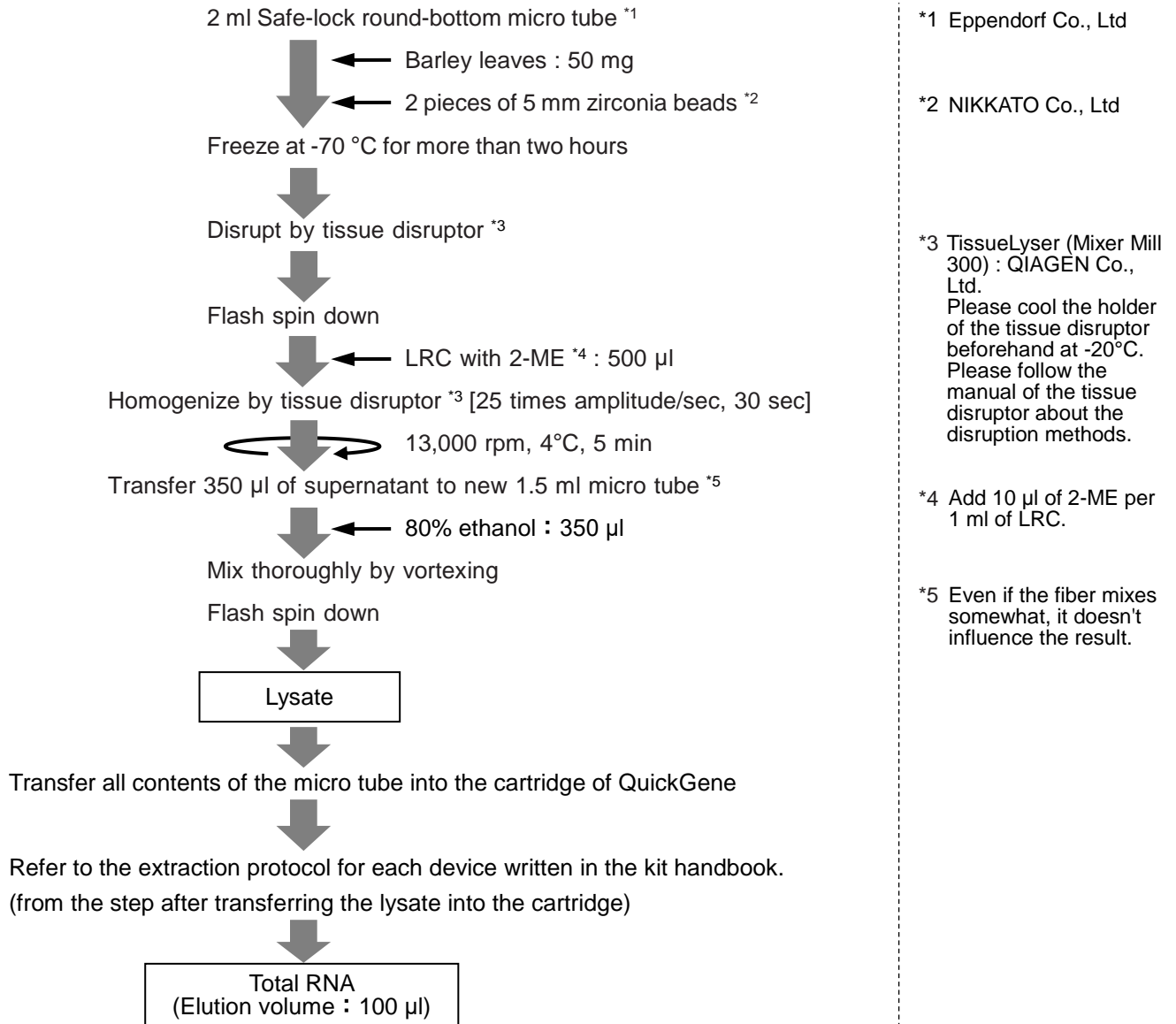
Common protocol is usable for the following

No Data

RB-2

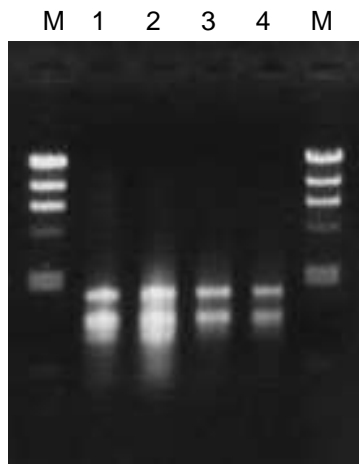
Total RNA Extraction from Barley Leaves

Protocol



Results

Electropherogram



Electrophoresis condition 0.8% Agarose gel

TAE Buffer

2 μ l 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 (μ g)	A260/280
Barley leaves	12.2	2.12

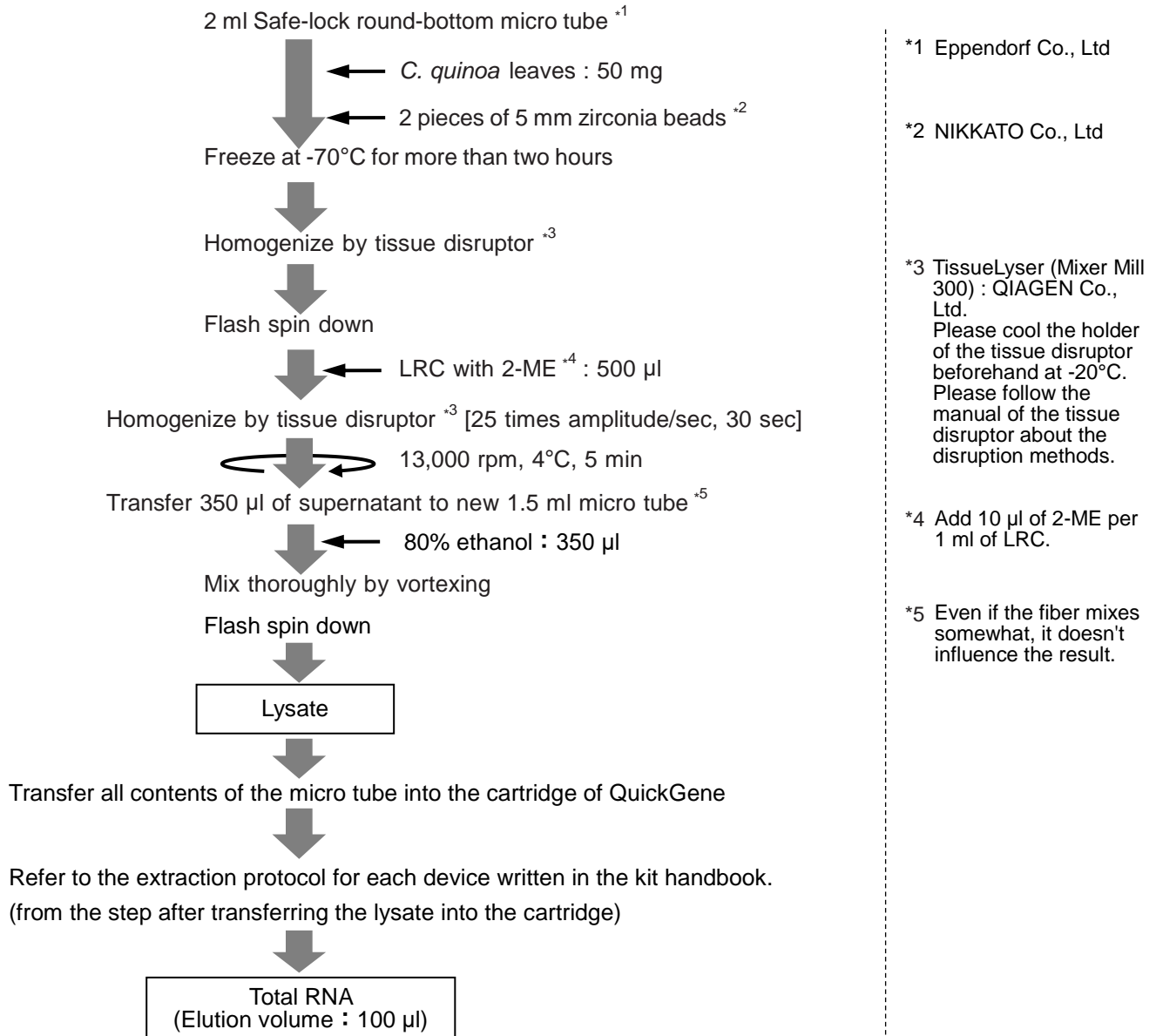
Common protocol is usable for the following

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

RB-3

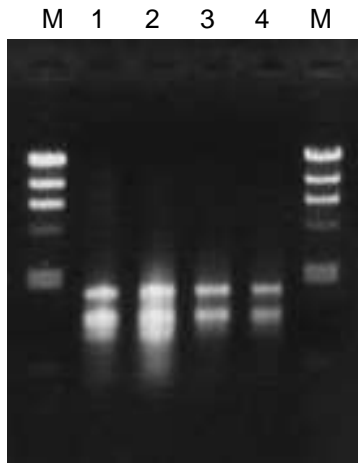
Total RNA Extraction from *C. quinoa* Leaves

Protocol



Results

Electropherogram



Electrophoresis condition 0.8% Agarose gel
TAE Buffer

2 μ l 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 (μ g)	A260/280
<i>C. quinoa</i> leaves	3.88	2.02

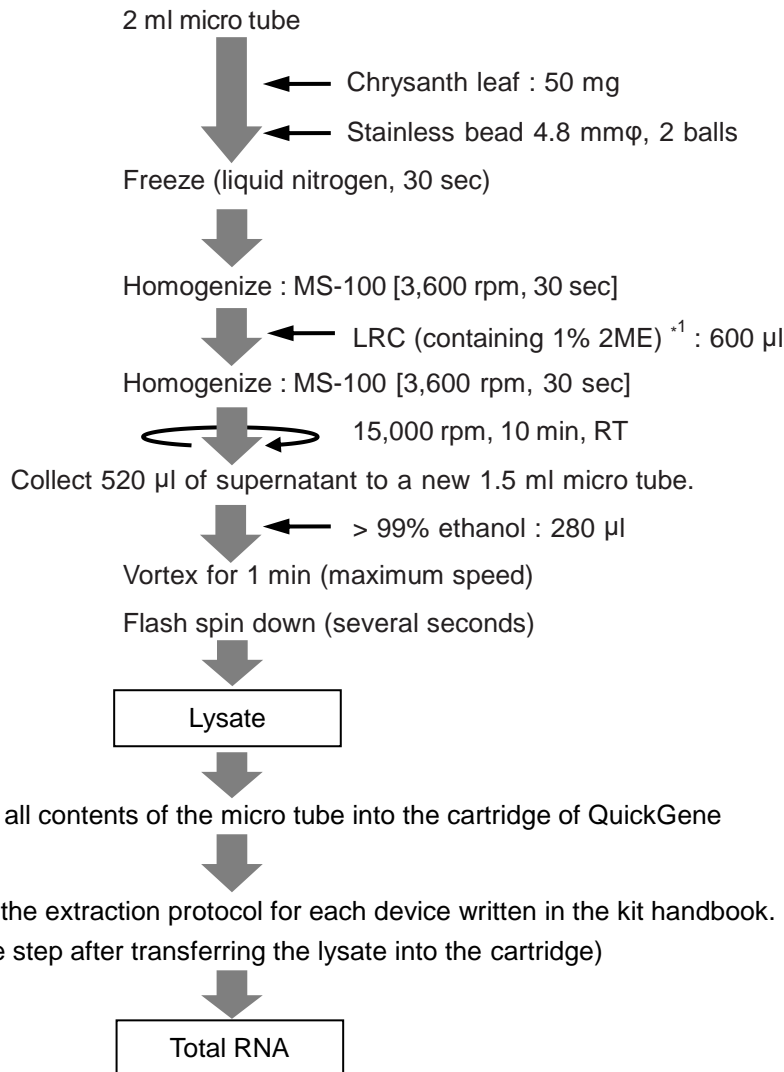
Common protocol is usable for the following

N. benthamiana leaves, Barley leaves, Wheat leaves

RB-4

Total RNA Extraction from Chrysanth Leaf

Protocol



*1 Add 10 µl of 2-ME per 1 ml of LRC.

Results

No Data

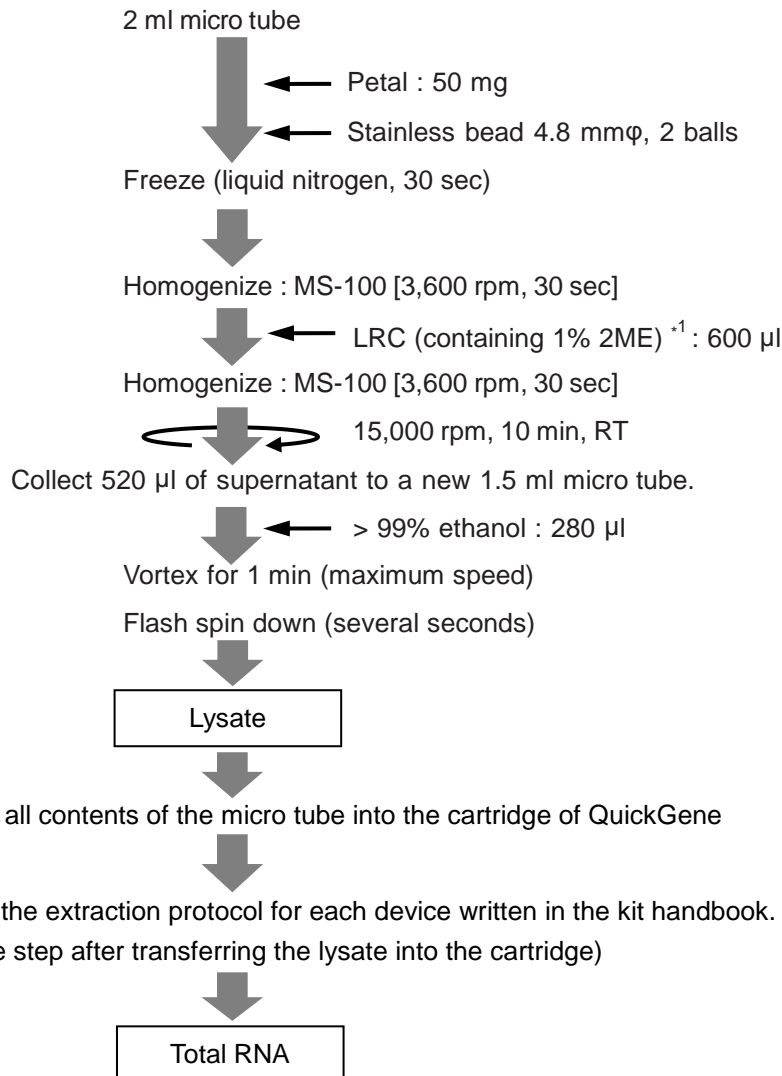
Common protocol is usable for the following

No Data

RB-5

Total RNA Extraction from Petal

Protocol



*1 Add 10 μl of 2-ME per 1 ml of LRC.

Results

No Data

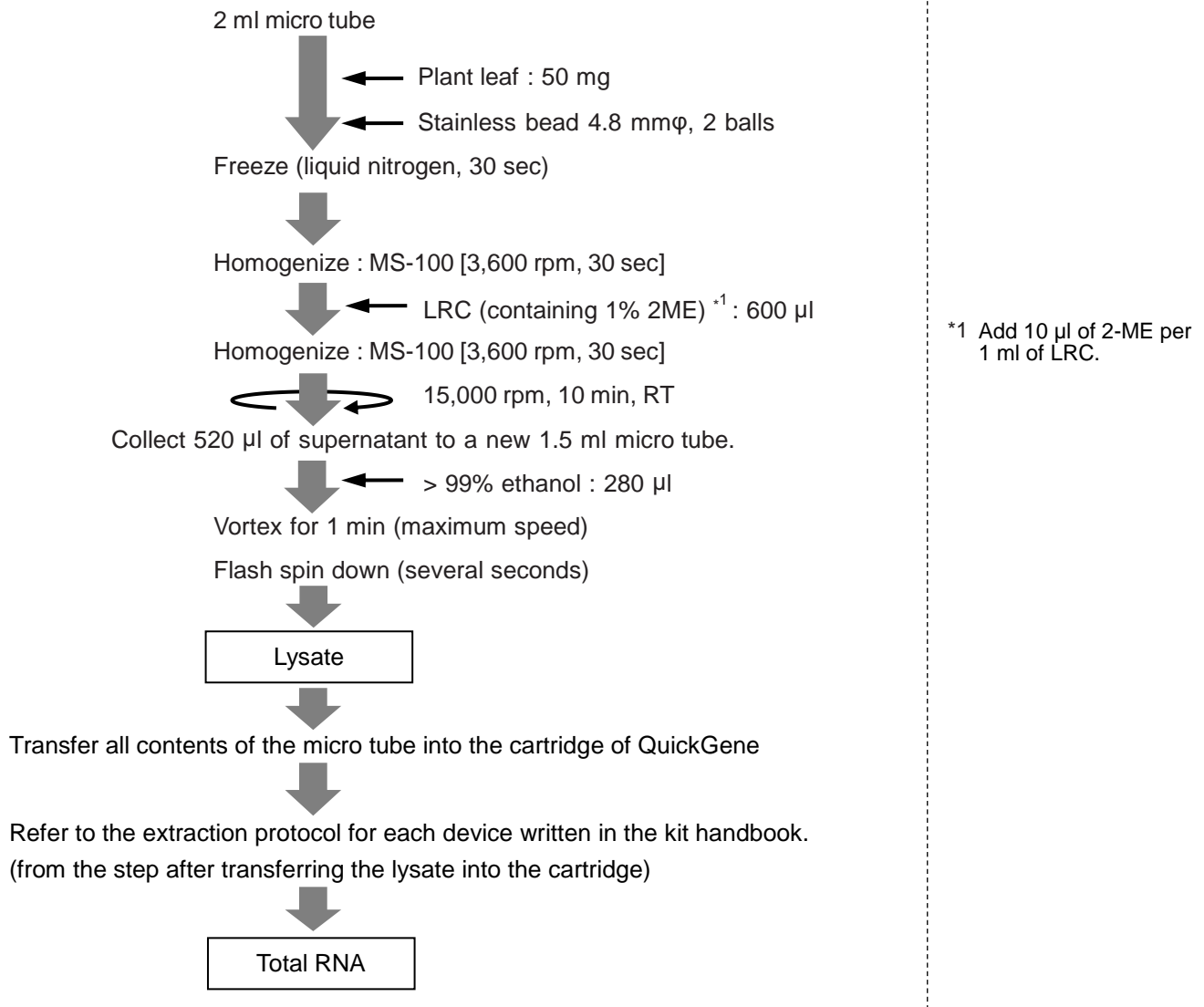
Common protocol is usable for the following

No Data

RB-6

Total RNA Extraction from Plants

Protocol



Results

No Data

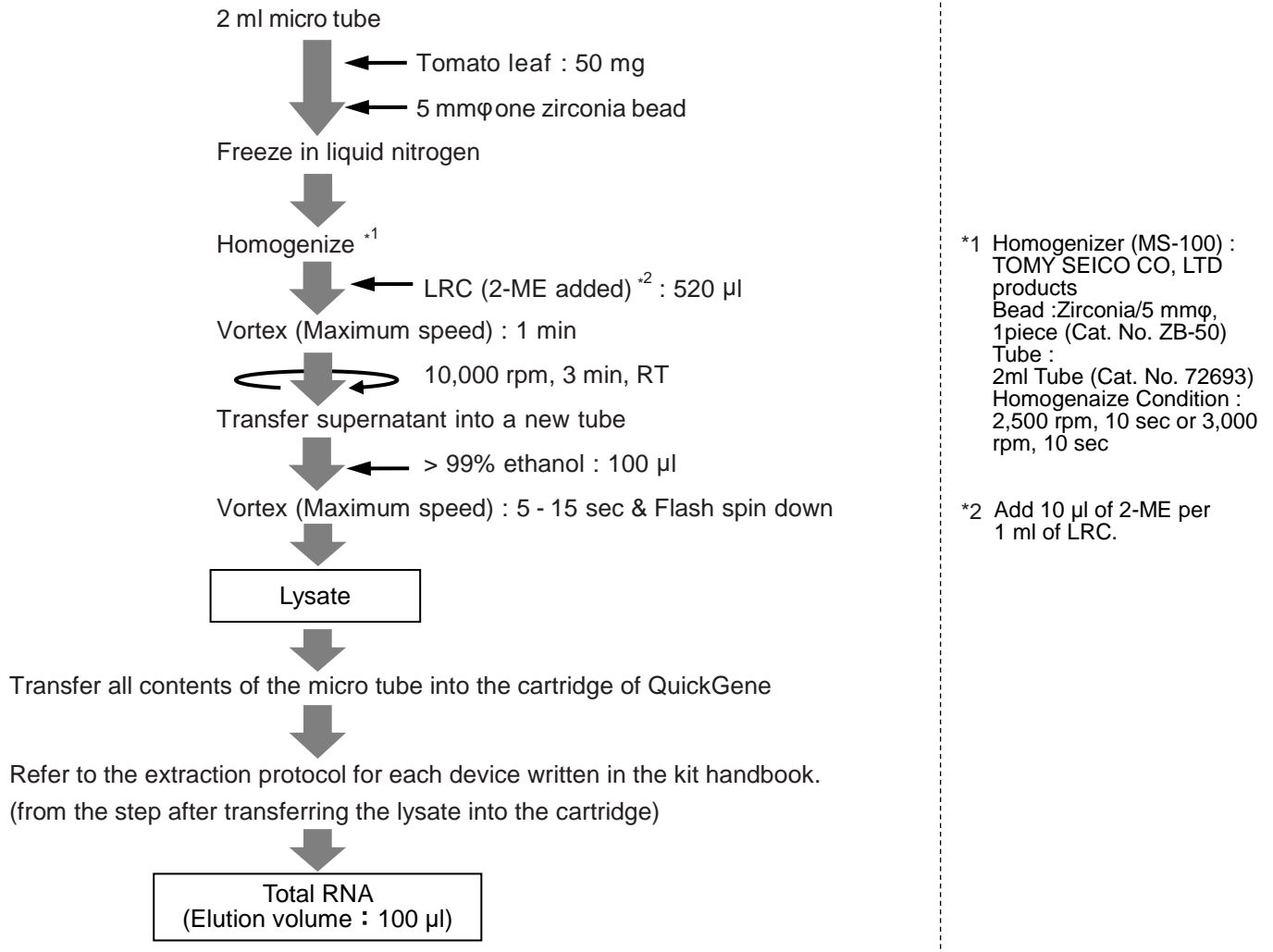
Common protocol is usable for the following

No Data

RB-7

Total RNA Extraction from Tomato Leaf

Protocol



Results

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

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

Common protocol is usable for the following

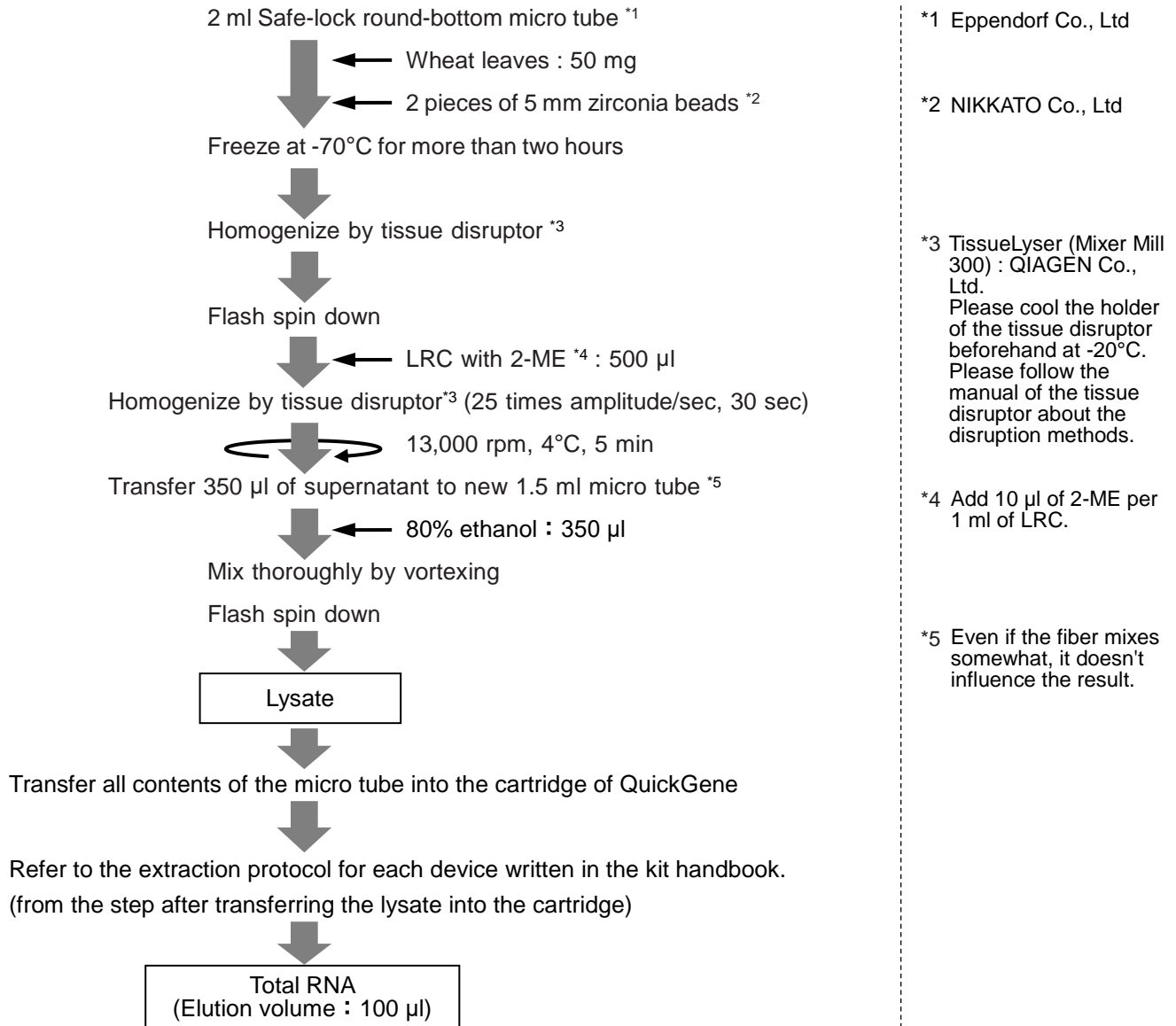
No Data

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).

RB-8

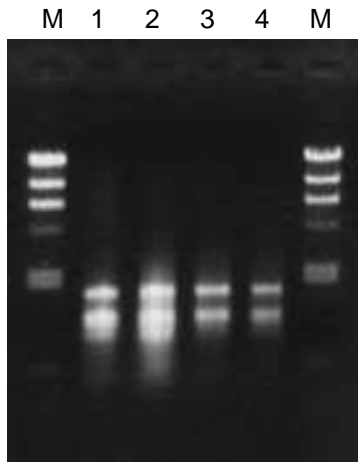
Total RNA Extraction from Wheat Leaves

Protocol



Results

Electropherogram



Electrophoresis condition 0.8% Agarose gel

TAE Buffer

2 μ l 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 (μ g)	A260/280
Wheat leaves	6.12	2.11

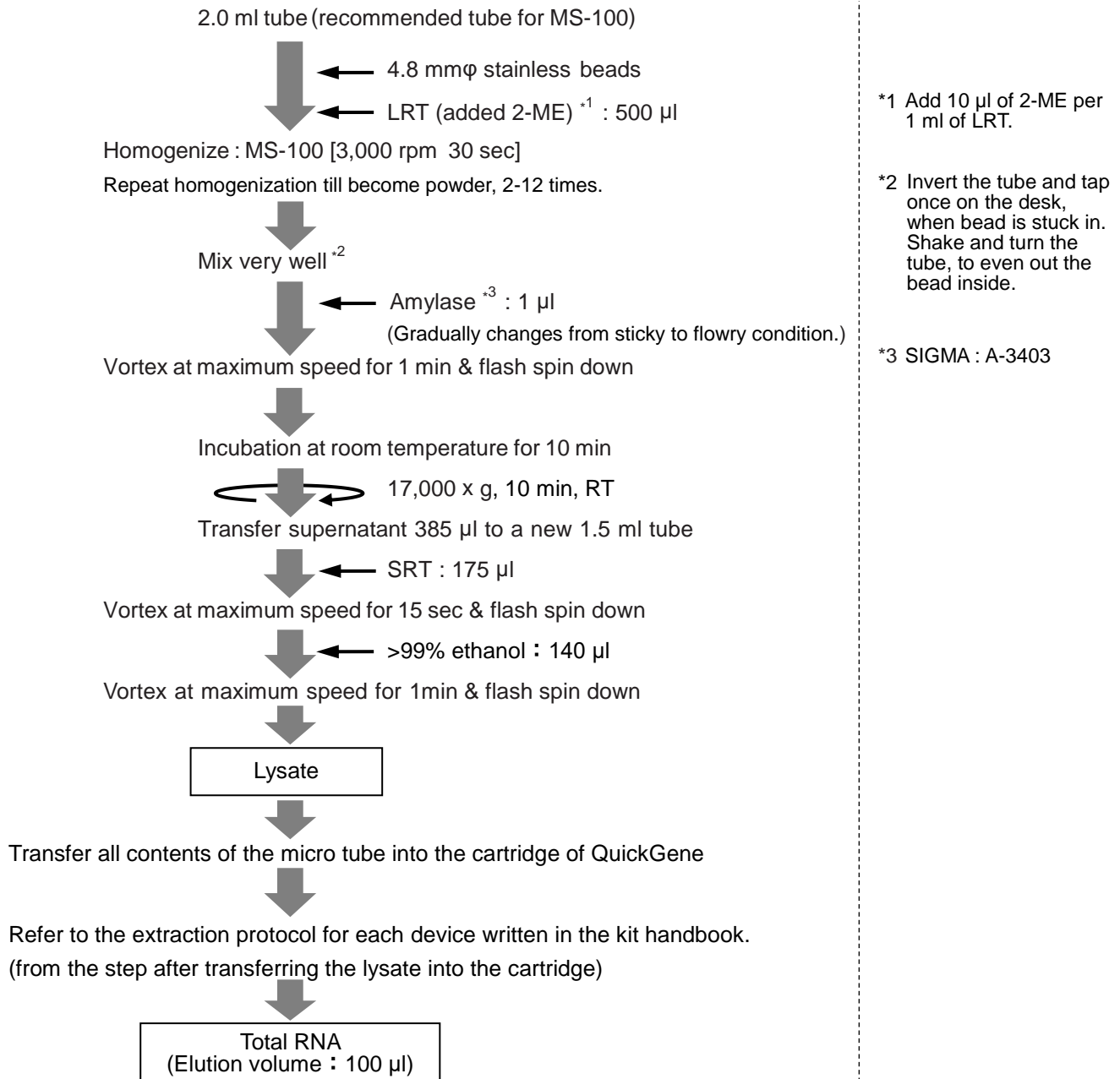
Common protocol is usable for the following

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

RB-9

Total RNA Isolation from Amaranthus seeds

Protocol



Results

No Data

Common protocol is usable for the following

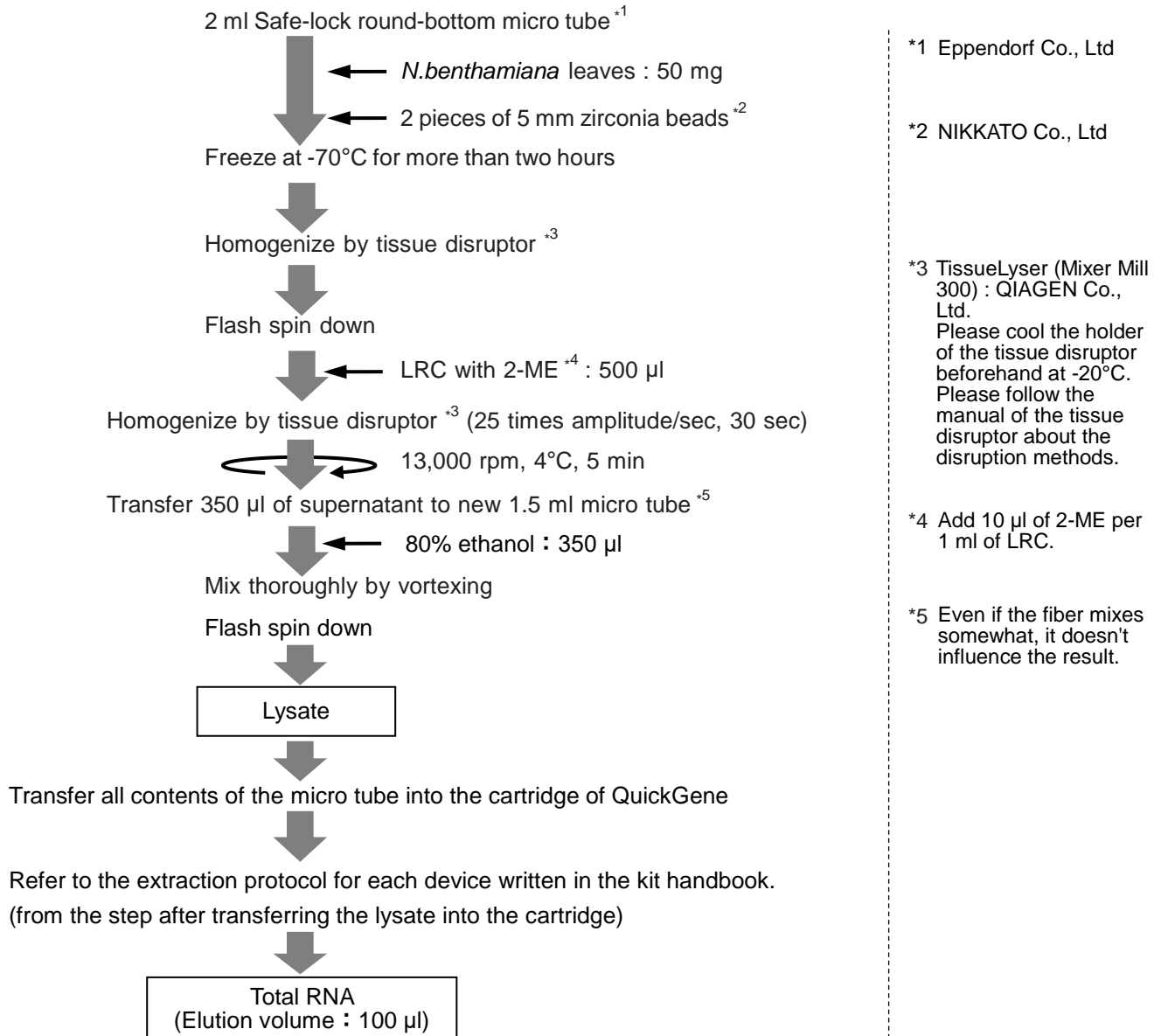
No Data

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).

RB-10

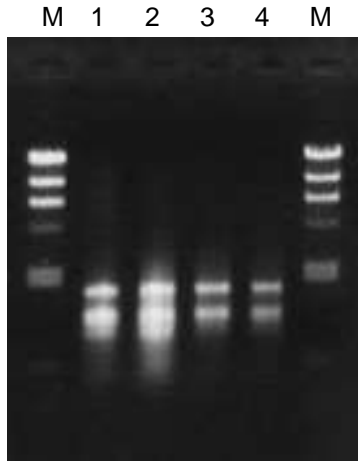
Total RNA Isolation from *N. benthamiana* Leaves

Protocol



Results

Electropherogram



Electrophoresis condition 0.8% Agarose gel
 TAE Buffer
 2 μ l 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 (μ g)	A260/280
<i>N. benthamiana</i> leaves	2.64	1.95

Common protocol is usable for the following

Barley leaves, *C. quinoa* leaves, Wheat leaves

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).