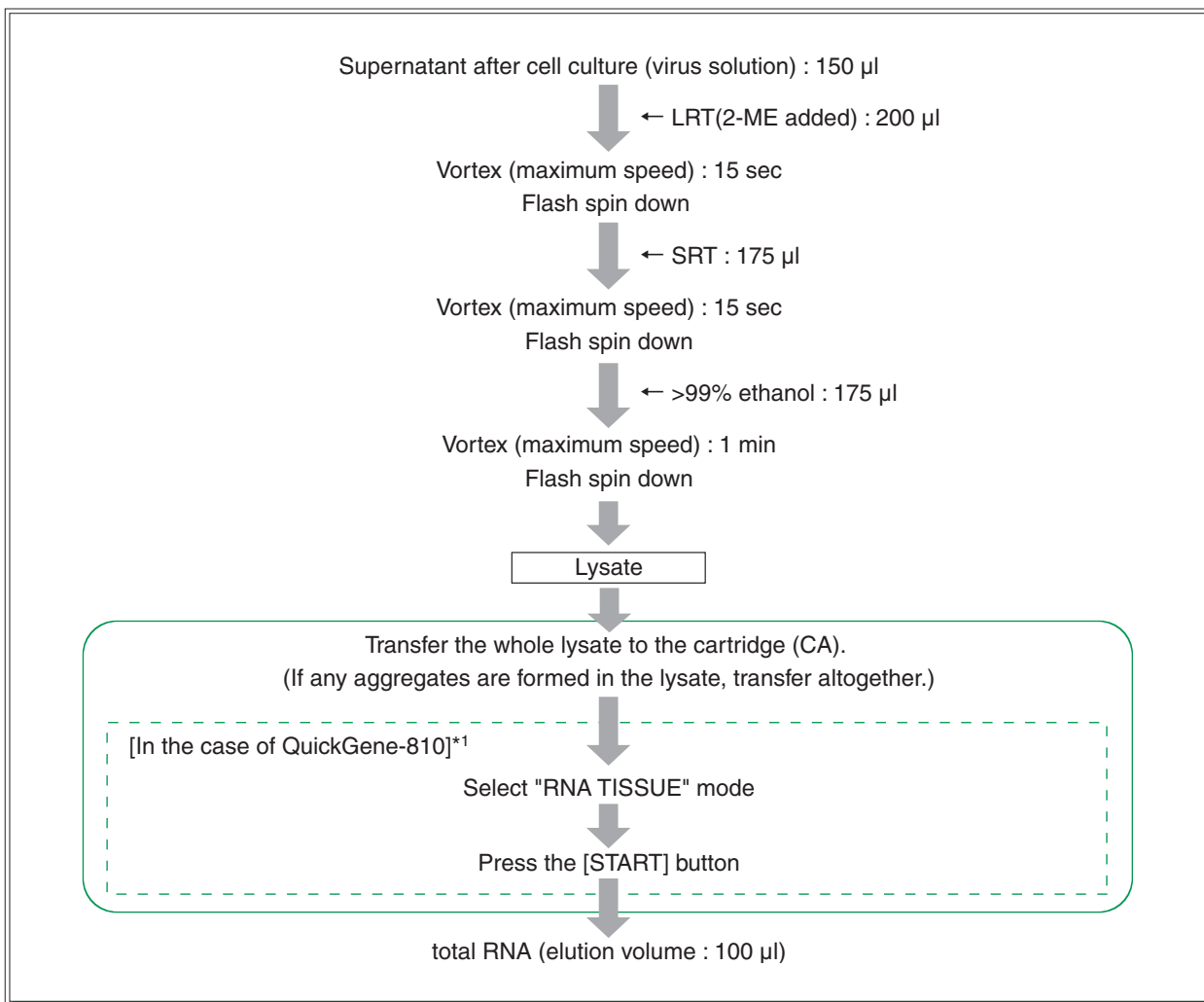


QuickGene Series **Application Guide****total RNA Extraction from Influenza Virus Solution**

Kit : QuickGene RNA tissue kit S II
Model : QuickGene-810/QuickGene-Mini80

Summary

Enables easy and rapid total RNA extraction from influenza virus solution

● Protocol

*1 : In the case of QuickGene-Mini80, please refer to the Kit Handbook for details.

* Perform extraction within 30 min after lysate preparation.

Results : total RNA extraction from influenza virus solution

total RNA was extracted from influenza virus solution using QuickGene system (QuickGene and QuickGene RNA tissue kit S II) and Spin column method (A company).

After culture of the following influenza viral strain transmitted to Vero cells, centrifuging (3,000 rpm, 15 min) was carried out following good achievement of cytopathic effect. Then, the supernatant was used as virus solution. Vero cells were cultured in DMEM added with 10% FBS.

Viral strains AH3 type (clinical isolate)
B type (clinical isolate)

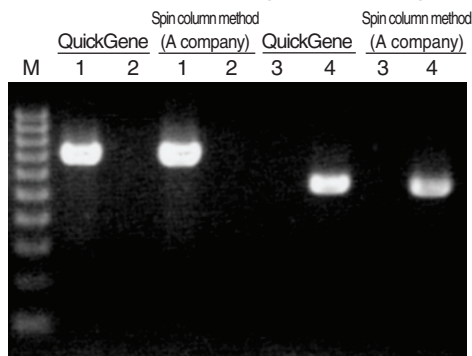
● The purity of total RNA

As absorbance at 280 nm was under detection limit for each total RNA, little contamination of protein is indicated.

● RT-PCR

RT-PCR was performed with AH3 type influenza-specific primer and B type influenza-specific primer for total RNA extracted from influenza virus solution using QuickGene system and Spin column method (A company).

Confirmation of virus type selectivity



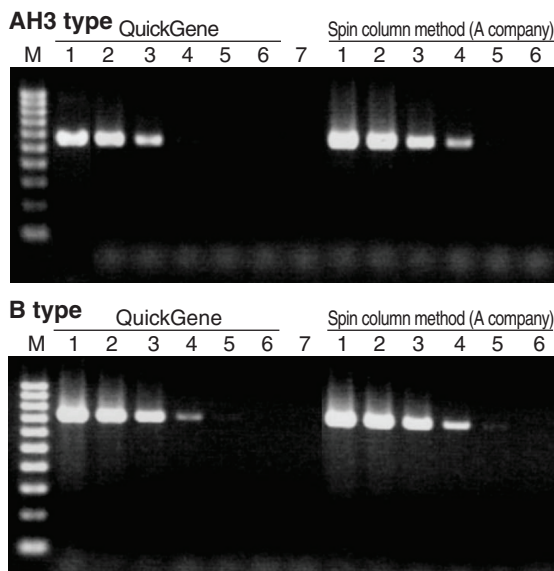
Electrophoresis condition : 2.0% agarose/1 x TAE

M : 100 bp DNA Ladder
1 : AH3 type Influenza virus RNA
2 : B type Influenza virus RNA
3 : AH3 type Influenza virus RNA
4 : B type Influenza virus RNA

Primer : 1,2 AH3 type influenza-specific primer
3,4 B type influenza-specific primer

RT-PCR products were detected only with specific primer for each total RNA.

Confirmation of virus RT-PCR



Electrophoresis condition : 2.0% agarose/1 x TAE

M : 100 bp DNA Ladder
1 : Influenza virus, 10⁶ pfu/ml
2 : Influenza virus, 10⁵ pfu/ml
3 : Influenza virus, 10⁴ pfu/ml
4 : Influenza virus, 10³ pfu/ml
5 : Influenza virus, 10² pfu/ml
6 : Influenza virus, 10¹ pfu/ml
7 : Negative control

RT-PCR products of AH3 type influenza and B type influenza were detected for each total RNA.

* Trademark and exclusion item

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