QuickGene

RA-a-1

Automated_Total RNA Extraction from Leukocyte

Protocol

Pellet of leukocytes in a 2 ml micro tube[*1], after erythrocytes lysis
(Maximum number of leukocytes is 1.5 x 10^7)

↓

Loose pellet by tapping a tube

↓ ← LRB containing with TCEP [*2] : 520 µl

Vortex (maximum speed) : 30 sec

Flash spin down

↓ ← >99% ethanol : 250 µl

Vortex (maximum speed) : 5 min

Flash spin down

↓

Set into the device

Protocol: RNA BLOOD

*Please refer to Quick Start Guide or operation manual to know how to set sample tube.

↓

1. Apply lysate into cartridge
2. Pressurizing
3. Wash by Wash Buffer (WRB)
4. DNase treatment [*3]
5. Wash 2 times by Wash Buffer (WRB)
6. Add selected volume of Elution buffer and elute genomic DNA into collection tube.

↓

total RNA
(Elution volume : 50 µl)

*1 Following microtube are recommended.
#BM4020 (BM instrument co., ltd)
#72.695.700,
#72.695.500S
(SARSTEDT)

*2 Add 20 µl of TCEP per 1 ml of LRB.

Recommended products:
FUJIFILM Wako Pure Chemical Corporation
Product name:
0.5mol/L TCEP Solution
REF: 207-20151

*3.Recommended DNase:
Promega
RQ1 RNase-Free DNase
REF : M6101

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Results

Total RNA was isolated from Leukocyte (approx. 1 x 10^7 cells) by QuickGene-Auto12S

The yield of total RNA

Sample ID	#1	#2	#3	Average
Yield (μg)	5.2	4.7	4.6	4.8

Protein contamination A260/280

Sample ID	#1	#2	#3	Average
A260/280	2.13	2.13	2.11	2.12

RNA Quality：RIN

Sample ID	#1	#2	#3	Average
RIN	9.7	9.7	9.8	9.7