



## Product Application

### Total RNA Isolation from Hair Roots

Isolate qRT-PCR grade total RNA from Hair Roots

**Kit:** Maxwell 16 LEV simplyRNA Cells Kit (Cat. # AS1270)

**Analyses:** Quantitation by Qantus Fluorometer and QuantiFluor RNA System

**Sample Type(s):** Hair Root

**Input:** 3 pieces of hair roots

#### Materials Required:

Maxwell 16 Instrument (Cat. # AS2000) with v. 4.80 or later

Maxwell 16 LEV simplyRNA Kit (Cat. # AS1270)

Microcentrifuge capable of 14,000 × *g*

#### Protocol:

1. Pick up hair including hair root and cut off hair shaft
2. Add 3 pieces of hair roots into 1.5ml Centrifuge tube.
3. Add 200ul Homogenization Buffer including 1-thioglycerol and 20ul Proteinase K Solution.
4. Incubate for 1 hour at 56C.
5. Add 200ul of Lysis Buffer and vortex briefly.
6. Add the mixture into well #1 of the Maxwell cartridge.
7. Place Elution Tube into the LEV Cartridge Rack and 50ul of Nuclease-free Water.
8. Place the LEV Plungers into well #8 of the Maxwell cartridge.
9. Select LEV configuration on Maxwell 16 Instrument and select the purification method as follows: RUN, RNA, simplyRNA. Start the RUN.

#### Assay method:

Quantitation:

Quantus Fluorometer

QuantiFluor RNA System

#### Results:

Yield: 150ng

Concentration: 3ng/ul

We'll add qPCR info on this note in future.