


RNA 6000 Ladder

Catalog Number AM7152

Pub. No. 4382133 Rev. C

Contents	Quantity	Storage conditions
RNA 6000 Ladder, 150 ng/μL	3 x 20 μL	Store below -70°C Avoid multiple freeze-thaw cycles. The product may be stored short-term at -20°C.

 **WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from www.lifetechnologies.com/support.

Product description

The RNA 6000 Ladder is a set of six transcripts, 0.2, 0.5, 1.0, 2.0, 4.0 and 6.0 kb in length, designed for use with the Agilent® 2100 Bioanalyzer™ instrument and the RNA 6000 LabChip® kits. The 0.2 kb RNA is at a concentration of 20 ng/μL (A₂₆₀).

Storage buffer: 0.1 mM EDTA.

Handling instructions

This product is very sensitive to degradation by exogenous ribonucleases introduced during handling. Wear gloves when handling this product. Use RNase-free reagents, tubes, and barrier pipette tips.

Note: A degraded ladder can lead to erroneous quantitation.

Thawing instructions

Thaw just to completion at 37°C, vortex for a few seconds when fully thawed, and place on ice. Aliquot the RNA, if necessary, to minimize freeze-thaw cycles (≤5).

Using the RNA 6000 Ladder

- Use 1 μL of RNA 6000 Ladder per chip
- Prior to use, centrifuge the tube for a few seconds to collect the contents in the bottom of the tube

Denature the ladder

The RNA 6000 Ladder must be heat denatured before each use.

1. Each workday, dispense a 1-day supply of the product into a fresh microcentrifuge tube and heat the tube at 70°C for 2 min.
2. Place the tube directly on ice for 5 min. to snap-cool.
3. Briefly centrifuge the tube to clear any condensate from the tube walls and cap the tube.
4. Keep the RNA 6000 Ladder on ice throughout the day.

Example Bioanalyzer™ instrument images

Slight variations in the signal intensities of the ladder peaks may be seen between different reagent lots. These minor variations will not compromise assay performance. See Figure 1.

Generally, when degradation occurs, the high molecular weight peaks disappear. If the RNA peak pattern changes dramatically from the examples on this data sheet, the product may be degraded and a fresh tube of RNA 6000 Ladder should be used.

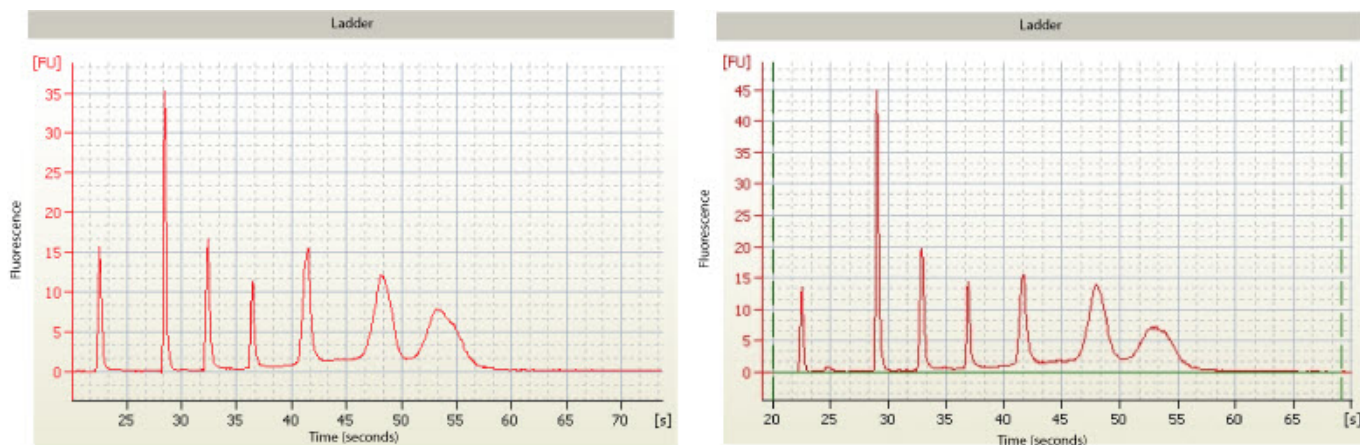


Figure 1 Typical signal intensity variations seen between two different lots of RNA 6000 Ladder.

Quality control

Functional testing: 150 ng (1 μ L) will generate 6 distinct bands when run on a RNA LabChip[®] using the Total RNA or mRNA assay. The ladder remains intact when incubated at 37°C overnight.

Limited product warranty

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