

Checking RNA quality with the BIOANALYZER using the RNA 6000 nano kit


Principle

Agilent RNA kits contain chips and reagents designed for analysis of RNA fragments. Each RNA chip contains an interconnected set of microchannels that is used for separation of nucleic acid fragments based on their size as they are driven through it electrophoretically. Agilent RNA kits are designed for use with the Agilent 2100 bioanalyzer only.

Agilent RNA kits are designed for the analysis of total RNA (eukaryotic and prokaryotic) and mRNA samples.

The complete RNA 6000 Nano kit guide can be found in the online help of the 2100 expert software. (taken from: <http://www.chem.agilent.com/>)

Equipment and Reagents

Machine/Product	Reference (Company, Type, ...)
Bioanalyzer (2100) + software	Agilent Technologies
RNA 6000 Nano Kit	Agilent Technologies Order # 5067-1511
Pipettes (10 µl and 1000 µl)	
RNase-free compatible tips	
RNase-free microtubes	
RNaseZAP®	Life Technologies AM9780
RNase-free water	
0.5 ml and 1.5 ml micro-centrifuge tubes (RNase-free)	
Heating block	
Chip priming station	
IKA vortex mixer	Model MS3

User Manuals and Protocols

The user manuals and quick start protocols are available at the Agilent Technologies website (<http://www.genomics.agilent.com/>).

Agilent RNA 6000 Nano Kit Quick Start Guide:

(http://www.chem.agilent.com/library/usermanuals/Public/G2938-90037_RNA6000Nano_QSG.pdf)

Agilent RNA 6000 Nano Kit Guide: (http://www.chem.agilent.com/library/usermanuals/Public/G2938-90034_RNA6000Nano_KG.pdf)

Agilent 2100 Bioanalyzer Maintenance & Troubleshooting Guide:

(<http://www.chem.agilent.com/library/usermanuals/Public/G2946-90003.pdf>)