



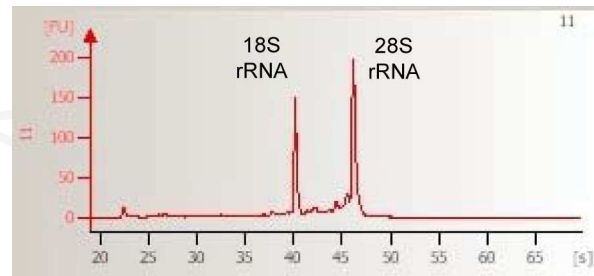
Isolation of RNA from Rat Liver Altana Pharma AG, Germany

CONTEXT

In toxicogenomics application field, the molecular biology laboratory of the company Altana Pharma AG is using the Precellys®24 to isolate RNA for subsequent gene expression profiling using micro arrays and quantitative real time PCR.

RESULTS

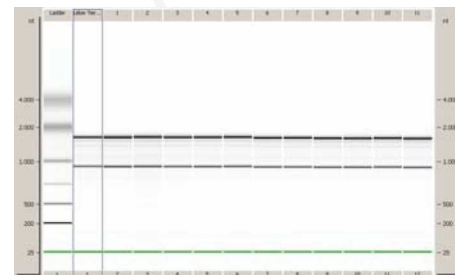
These results were concluded with the collaboration of Altana Pharma AG. Analysis of the subsequently isolated RNA using the Agilent 2100 bioanalyzer.



Electropherogram of isolated RNA

MATERIAL

- Precellys®24
- Precellys® kit CK28 (big ceramic beads)
- Sample : 30 mg of rat liver previously stored in RNAlater (Ambion) at -20°C
- Buffer : 600µl RTL buffer (RNeasy Mini Kit, Qiagen)



28s rRNA
18s rRNA

Gel-like image of RNA's isolated using different Precellys® set-ups

PROTOCOL

- Precellys®24 parameters:
5000rpm, 2x10 sec., 10 sec. break



CONCLUSION

The Precellys®24 is an ideal tool for the lysis of rat liver for subsequently isolating RNA. Particularly for higher numbers the Precellys® is superior to the formerly used mechanical blender, regarding time consumption and reproducibility.