Ultrapure Water Application of ORGANO

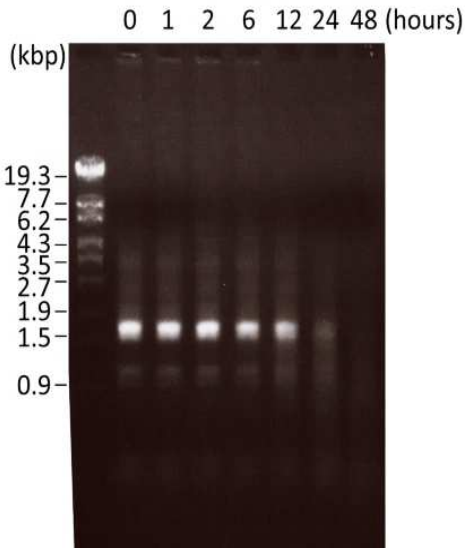
PURIC Water Information

Evaluation for ultrapure water by Electrophoresis for RNA

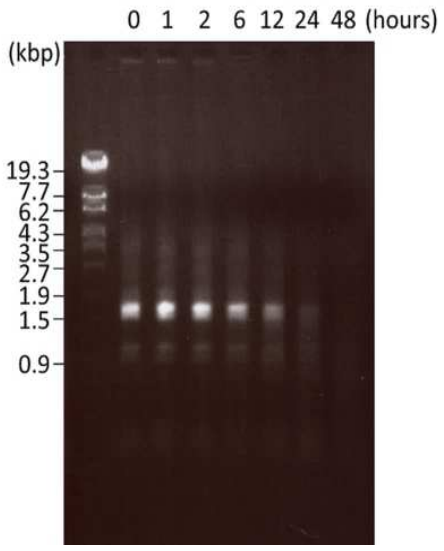
We have to take care of contaminations of degrading enzyme RNase during RNA experiments, as RNase tends to be contaminated from air dust or human organisms and can be inactivated. That is the reason DEPC treated water or RNase free bottle water is used for RNA experiments. Hereby, we would like to introduce the result of electrophoresis analysis in which Puric-α ultrapure water is used. Puric-α has built-in UF and can produce RNase free water.

- Ultrapure water production equipment : PR-FP-0120α-UT0 set (ORGANO)
- Analytical conditions:
  - Total RNA is extracted from cultured mouse cells RAW264.7.
  - RNA 0.6μL is dissolved in 10μL of Puric-α ultrapure water and RNase free bottle water respectively, and gets stationary for 1-48hours in 37℃.
  - Analyzed the band patterns by agarose gel electrophoresis.

Analysis result



Puric-α ultrapure water



Bottle water (RNase free water)

Summary

Puric-α ultrapure water is proven to retain RNA for 12hours as RNase free water. Both water can show low background and clear band equivalently, meaning Puric-α water is suitable to the use for electrophoresis analysis.

RNase free bottle water has the risk of atmosphere pollutions during the open action of bottles or conducing experiments. Puric-α with single drop function can reduce human operations and prevent the contamination of impurities.

Data provided by Faculty of Bioresources, Mie University

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