

Fully Automated Magtration® System 6GC for RNA Purification from Animal Tissue



Table 1. Materials and reagents

| | |
|----------------------|--|
| Sample | Mouse liver 10 mg |
| Reagent | GC series Magtration®-MagaZorb® RNA Common kit (Code No. E2004) |
| IC-card for Protocol | Magtration®-MagaZorb® RNA Common kit (Code No. I-6054) |
| Sample Preparation | Homogenized with RNAlater™ 150 µl |
| Elution Volume | 50 or 100 µl |
| Operation Time | Including DNase treatment : Approx. 45 min (Without DNase treatment : Approx. 35 min) |

Table 2. Summary of total RNA purification (n=6)

| Sample | Yield (µg) | A ₂₆₀ /A ₂₈₀ | A ₂₆₀ /A ₂₃₀ |
|-------------------|------------|------------------------------------|------------------------------------|
| Mouse liver 10 mg | 22.7 ± 1.3 | 1.92 ± 0.02 | 1.60 ± 0.03 |

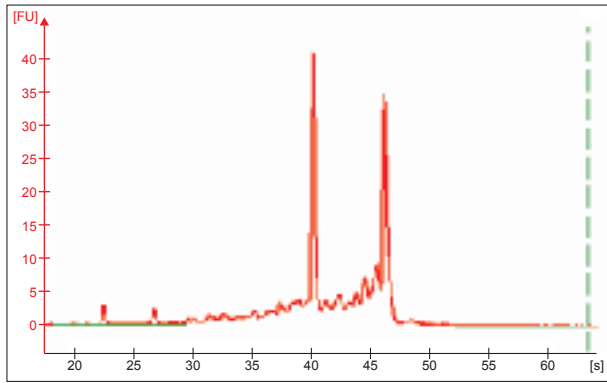


Figure 1. Electropherogram of total RNA isolated from mouse liver by Agilent® 2100 bioanalyzer.

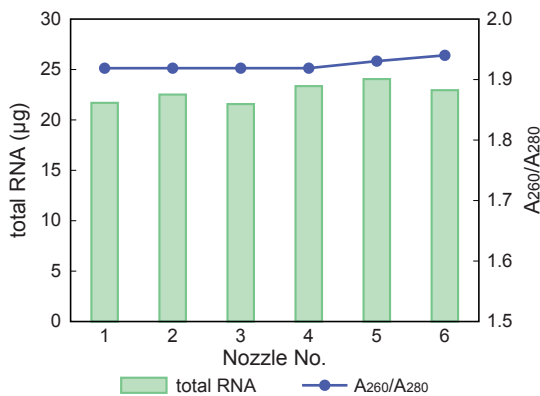


Figure 2. Yields and purities of total RNAs isolated from mouse liver at each nozzle position with Magtration® System 6GC.

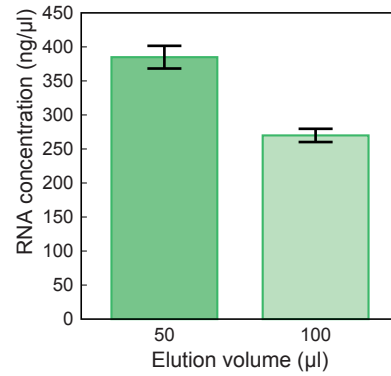


Figure 3. Typical yield from different elution volumes.

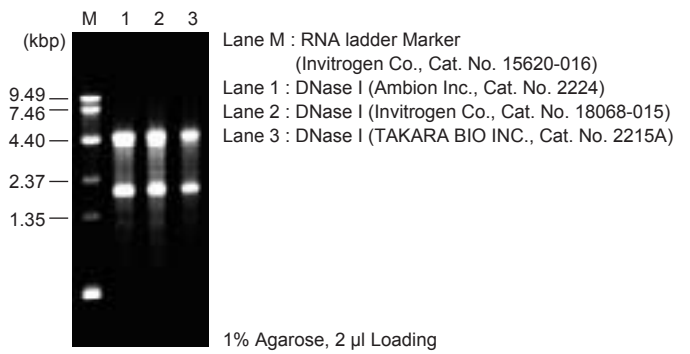


Figure 4. Formaldehyde/agarose gel electrophoresis of purified RNA from mouse liver with different DNase I.

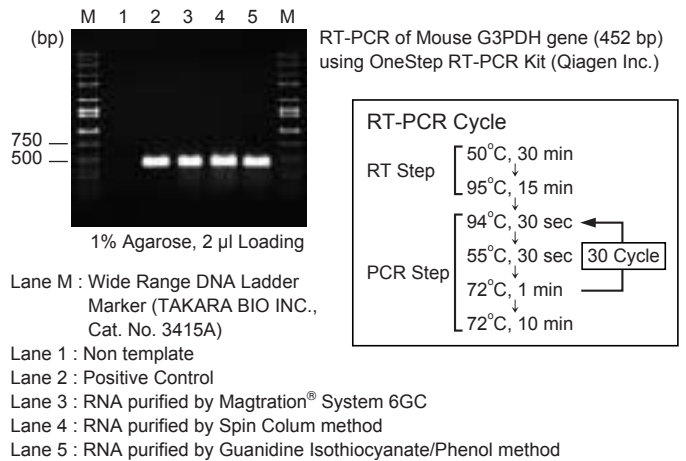


Figure 5. RT-PCR of total RNAs purified by different methods.

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Fully Automated Magtration® System 12GC for RNA Purification from Animal Tissue



Table 1. Materials and reagents

| | |
|----------------------|--|
| Sample | Mouse liver 10 mg |
| Reagent | GC series Magtration®-MagaZorb® RNA Common kit (Code No. E2004) |
| IC-card for Protocol | Magtration®-MagaZorb® RNA Common kit (Code No. I-1254) |
| Sample Preparation | Homogenized with RNAlater® 150 µl |
| Elution Volume | 50 or 100 µl |
| Operation Time | Including DNase treatment : Approx. 45 min (Without DNase treatment : Approx. 35 min) |

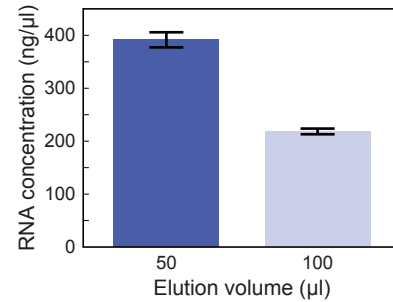


Figure 3. Typical yield from different elution volumes.

Table 2. Summary of total RNA purification (n=4)

| Sample | Yield (µg) | A ₂₆₀ /A ₂₈₀ | A ₂₆₀ /A ₂₃₀ |
|-------------------|------------|------------------------------------|------------------------------------|
| Mouse liver 10 mg | 21.3 ± 1.3 | 1.92 ± 0.03 | 1.60 ± 0.03 |

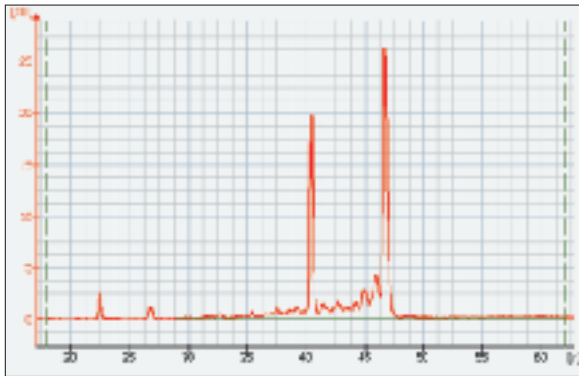


Figure 1. Electropherogram of total RNA isolated from mouse liver by Agilent® 2100 bioanalyzer.

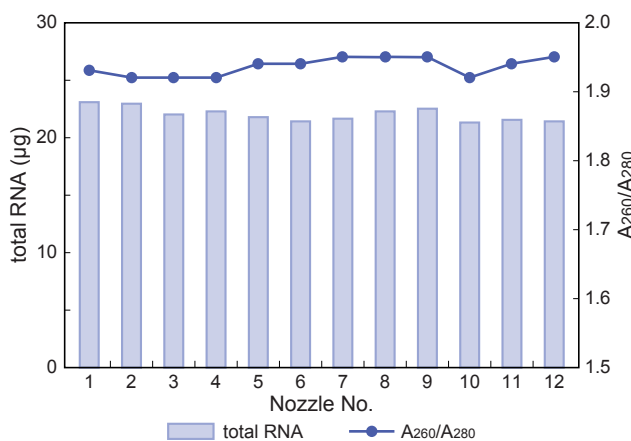


Figure 2. Yields and purities of total RNAs isolated from mouse liver at each nozzle position with Magtration® System 12GC.

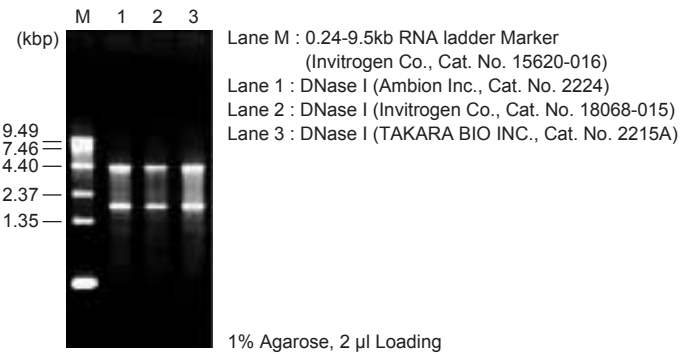


Figure 4. Formaldehyde/agarose gel electrophoresis of purified RNA from mouse liver with different DNase I.

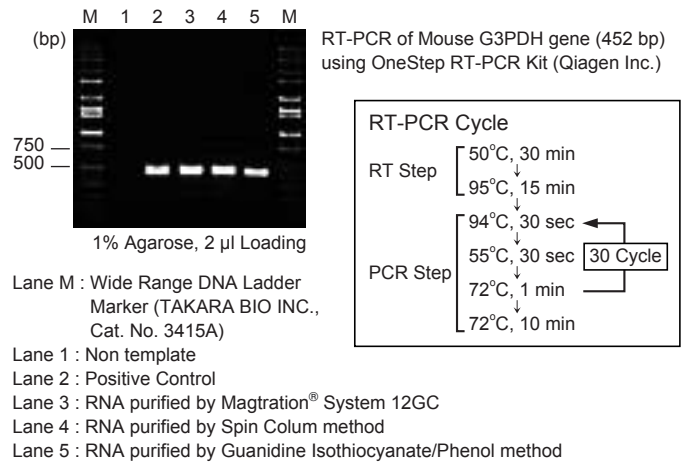


Figure 5. RT-PCR of total RNAs purified by different methods.

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