

AGTC RNA Isolation Submission Overview

TISSUE

RNA Stabilized

- 25 mg of tissue in RNAlater, or Allprotect Tissue Reagent.
- Follow product instructions for appropriate volumes and proper storage www.qiagen.com

Flash Frozen

- 50 mg for most flash-frozen tissue
- 100 mg flash-frozen adipose tissue
- 25 mg flash-frozen liver, thymus, or spleen
- 0.5cm X 0.5cm X 0.5cm size in lieu of weight

Note: Refer to EZ1® RNA Handbook www.qiagen.com for detailed protocols.

Formalin-Fixed, Paraffin-Embedded (FFPE)

- Equivalent of $\leq 80 \mu\text{m}$ FFPE sections or 1 unsectioned core $\leq 35 \text{ mg}$

Note: Refer to Ambion RecoverAll™ Protocol www.ambion.com

BLOOD

Whole Blood

- Collect whole blood by venipuncture into 2 PAXgene® blood RNA tubes per test subject.
- If possible, collect one K₂EDTA (lavender Vacutainer®) tube and perform automated white blood cell count (WBC). Include the WBC results with each sample submitted to the AGTC.
- Incubate PAXgene® blood RNA tubes at room temperature for 2 hours to ensure complete lysis.
- Store RNA tubes at -70°C
- Transport to AGTC frozen on dry ice.

Note: Refer to PAXgene® Blood RNA handbook www.prealalytix.com for detailed handling protocols.

CELLS

Cells in Suspension

- Pellet $\leq 1 \times 10^7$ cells by centrifugation for 5 min at $300 \times g$
- **Completely** remove supernatant by aspiration.
- Add 750 μl Qiazol® lysis solution.
- Store at -70°C
- Transport to AGTC frozen, on dry ice.

Cells in Monolayer

- $\leq 1 \times 10^7$ cells starting material
- **Completely** aspirate and remove culture media.
- Add 750 μl Qiazol® lysis solution directly to monolayer.
- Collect lysate with cell scraper and pipet all 750 μl into a Safe-Lock 2.0 ml microcentrifuge tube (Eppendorf cat# 022600044).
- Store at -70°C
- Transport to AGTC frozen on dry ice.

Note: Refer to EZ1® RNA Handbook www.qiagen.com for detailed protocols.