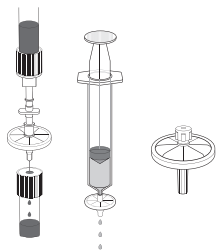



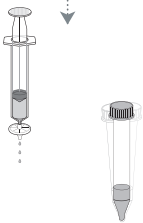
**Figure 1. LeukoLOCK™ Total RNA Isolation System Overview**


**Sample Collection and Capture of Leukocytes**



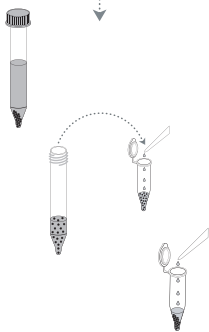
1. Collect 9–10 ml whole blood samples in EDTA-containing tubes
  2. Assemble the sample tube/LeukoLOCK Filter apparatus
  3. Pass blood through the LeukoLOCK Filter using an evacuated tube as vacuum source
  4. Flush filter with 3 ml of PBS and 3 ml of RNAlater®
  5. Seal the LeukoLOCK Filter ports
-  Potential stopping point

**LeukoLOCK Filter Processing and Cell Lysis**



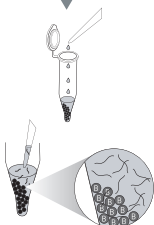
1. Prepare pH-adjusted Lysis/Binding Solution
  2. Remove residual RNAlater from LeukoLOCK Filter
  3. Flush with 2.5 ml pH-adjusted Lysis/Binding Solution; collect lysate in 15 ml tube
-  Potential stopping point
4. Add 2.5 ml Nuclease-free Water and 25 µl Proteinase K, and shake for 5 min

**RNA Isolation**



1. Add 50 µl RNA Binding Beads and 2.5 ml 100% isopropanol, and incubate at room temp for 5 min
  2. Recover the RNA Binding Beads and discard the supernatant
  3. Wash with 1.2 ml Wash Solution 1 and transfer the RNA Binding Beads to a 1.5 ml Processing Tube
  4. Recover the RNA Binding Beads and discard the supernatant
  5. Wash RNA Binding Beads with 750 µl Wash Solution 2/3
- (Optional) TURBO DNase Treatment

**Final Wash and Elution**



1. Wash the RNA Binding Beads with 750 µl Wash Solution 2/3 and air dry briefly
2. Elute the RNA with ≤150 µl Elution Solution