Blood Cells Total RNA Purification Protocol	
1	Collect blood cells by centrifugation of 0.5 mL of whole blood at $400 \times g$ for 5 min at
	4°C. Blood cells will generate a pellet of approximately 60-70% of the total sample
	volume. Remove the clear supernatant (plasma) from the pellet with a pipette.
2	Resuspend the pellet in 600 μ L of Lysis Buffer supplemented with
	β -mercaptoethanol or DTT. Vortex or pipet to mix thoroughly.
3	Add 450 µL of ethanol (96-100%) and mix by pipetting.
4	Transfer up to 700 μ L of lysate to (the GeneJET RNA Purification Column) inserted in a
	collection tube. Centrifuge the column for 1 min at $\geq 12000 \times g$. Discard the flow- through
	and place the purification column back into the collection tube. Repeat this step until all of
	the lysate has been transferred into the column and centrifuged.
	Discard the collection tube containing the flow-through solution. Place the (GeneJET RNA
	Purification Column) into a new (2 mL collection tube).
5	Add 700 μ L of Wash Buffer 1 (supplemented with ethanol) to the (GeneJET
	RNA Purification Column) and centrifuge for 1 min at $\geq 12000 \times g$. Discard the flow-
	through and place the purification column back into the collection tube.
6	Add 600 μ L of Wash Buffer 2 (supplemented with ethanol, see p. 3) to (the GeneJET
	RNA Purification Column) and centrifuge for 1 min at $\geq 12000 \times g$. Discard the flow-
	through and place the purification column back into the collection tube.
7	Add 250 µL of Wash Buffer 2 to (the GeneJET RNA Purification Column) and centrifuge
	for 2 min at \geq 12000 × g. Optional. If residual solution is seen in the purification column,
	empty the collection tube and re-spin the column for 1 min. at maximum speed. Discard
	the collection tube containing the flow-through solution and transfer (the GeneJET RNA
	Purification Column) to a sterile (1.5 mL RNase-free microcentrifuge tube).
8	Add 50 μ L of Water, nuclease-free to the center of (the GeneJET RNA
	Purification Column membrane). Centrifuge for 1 min at $\geq 12000 \times g$ to elute RNA.
9	Discard the purification column. Use the purified RNA for downstream applications
	or store RNA at -20°C or -70°C until use.