mission bio

Tapestri Single-Cell DNA to DNA + RNA Workflow Changes

	Chapter	Step	DNA	DNA + RNA
	Reagents			Do not use **Lysis Mix or Cell Buffer** from DNA kit
	Firmware	Instrument Firmware	No Change	No Change
	Panel Design	Experimental Design	Panel design in Designer	Panel design supported by Mission Bio
1	Prepare Cell Suspension		Dilute in CB to 3,000 cells/uL	Dilute cells in **DPBS to 4,500 cells/uL**
2	Encapsulate Cells	Lysis Mix Preparation	Standard Lysis Mix with DNA Rev Primer	**RNA Lysis Mix** with RNA Enzyme/reagents/RNA Rev Primer
3	Lyse & Digest Cells		1 hr lysis time	**2 hrs** lysis time
4	Barcode Cells	Barcode Mix Preparation	Barcoding mix with DNA Fwd Primers	Barcoding mix with **RNA Fwd and DNA Fwd + Rev primers**
5	Targeted Amplification		No Change	No Change (use DNA panel size annealing time)
6	Cleanup PCR Products	DNA Library Cleanup I	0.72X, 0.76X AmpureXP cleanups	0.72X, AmpureXP cleanup, **agarose gel cleanup**, **0.92X** AmpureXP cleanup
7	Library PCR	DNA Library Cleanup II	0.69X, 0.72X AmpureXP cleanups	**Side by side 2x 0.69X** AmpureXP cleanups of DNA and RNA libraries
8	Quantify and Normalize Library		DNA library with ~460 bp peak	**DNA and RNA libraries** with ~460 bp peak
9	Sequence Library	Required reads	~80x coverage per cell/amplicon	DNA ~80x coverage per cell/amplicon, **RNA 100x per cell/gene**