LONG-TERM STORAGE OF TISSUE SPECIMEN AT -20°C TO -80°C WITH PRESERVATION OF **MORPHOLOGY AND NUCLEIC ACIDS WITHIN FROZEN TISSUE**

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intended to provide information for the diagnosis, prevention or treatment of disease.



	Conclusion			
ion	PAXgene Tissue System	Neutral Buffered Formalin	Liquid Nitrogen	
hology	 Comparable to FFPE Preserved, even after long-term storage in PAXgene Tissue Stabilizer 20°C to -80°C Standardized workflow 	 Pre-embedding long-term storage not possible Under- or over-fixation possible 	 Histomorphology compromised due to formation of ice crystals 	
'NA	 Preserved without chemical modification No significant change in expression level after storage No RT-PCR inhibition Intact RNA; fragments > 1kb can be amplified 	 Cross-linked, chemically modified Gene quantification difficult RT-PCR inhibited RNA degraded; fragments ≥ 400bp difficult to amplify 	 Preserved Purification technically demanding 	
	 Preserved without chemical modification High molecular weight	Cross-linked, chemically modifiedDegraded	• Preserved	