

DNA STABILIZER FOR LONGER DNA MOLECULES

Learn how you can isolate even longer DNA molecules and get higher N50s with a minor modification to Bionano Prep SP Frozen Human Blood DNA isolation protocol.

Just add **40 µl** of stabilizing buffer before lysing WBC pellets.

Stabilizing buffer = 49 µl of cell buffer + 1 µl of DNA stabilizer.

See the updated blood sample protocol for details (step 6, page 11).

SAMPLE TYPE	SIZE CUT-OFF	AVG. N50 WITHOUT STABILIZER (kbp)	AVG. N50 WITH STABILIZER (kbp)	INCREASE IN SIZE*
Frozen blood in EDTA	≥20kbp	198 ± 47	243 ± 20	23%
	≥150kbp	276 ± 44	303 ± 20	10%

*% vs. no stabilizer control

Learn more about how scientists are using whole genome imaging for advancing leukemia research at www.bionanogenomics.com/videos

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