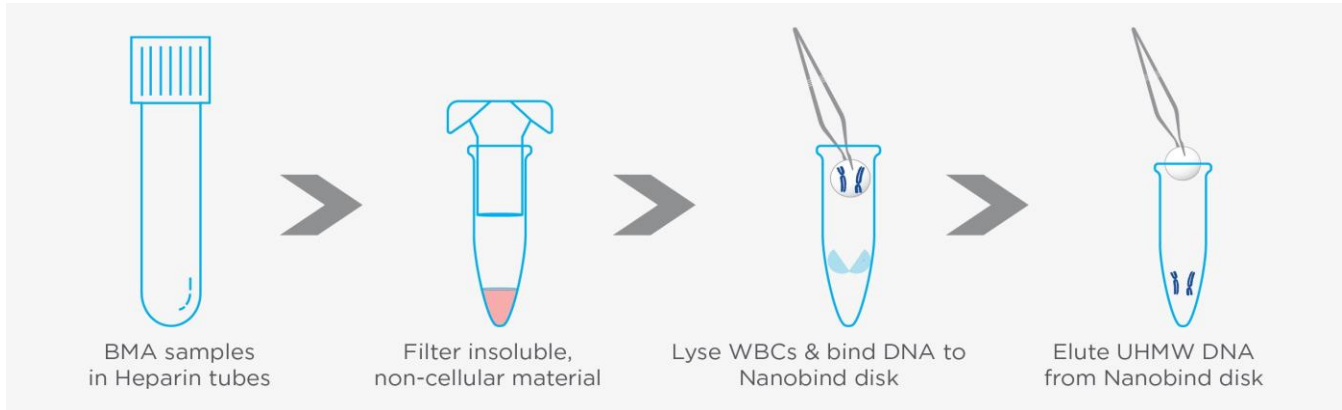


## Discover Next with Bionano Prep SP BMA Kit

Isolate Intact Ultra High Molecular Weight DNA in as little as 4 Hours




Molecular analysis of bone marrow aspirates (BMAs) can significantly impact evaluation of hematological malignancies and accurate identification of underlying genetic abnormalities. While BMAs can provide a wealth of genetic information, isolating high quality and high molecular weight DNA from these complex samples is a challenge.

Bionano Prep SP BMA DNA Isolation Kit can provide ultra-high molecular weight (UHMW) gDNA from white blood cells in BMA samples in as little as 4 hours. BMA samples, collected in heparin tubes, are filtered using a 100  $\mu$ m filter to remove any bone fragments or insoluble/non-cellular particulates.

The kit utilizes a lyse, bind, wash, and elute procedure with a novel paramagnetic Nanobind disk which isolates gDNA with significantly less fragmentation, resulting in UHMW gDNA. Isolated DNA is ready for labeling with Bionano DLS labeling kit to detect genome wide structural variations.

**SAMPLE TYPES VALIDATED WITH BIONANO PREP SP KITS**

 Blood	 Cell Lines	 BMA
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Learn more at [www.bionanogenomics.com/longDNA](http://www.bionanogenomics.com/longDNA)

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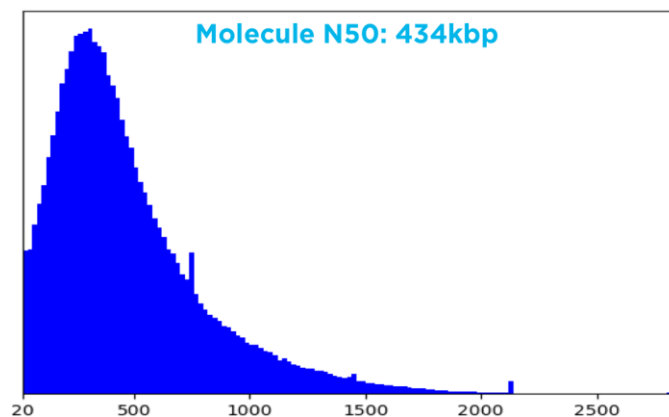
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Part #30327 Rev B

	Bionano Prep SP BMA DNA Isolation Kit v2 (10 Reactions)	Bionano Prep SP Blood/Cell Culture DNA Isolation Kit v2 (10 Reactions)
<b>Sample Type</b>	Heparin BMA samples	Blood, Cell culture
<b>Input</b>	1.5x10 <sup>6</sup> cells post-filtering	Fresh/frozen blood - up to 650 µl Cell Culture - 1.5x10 <sup>6</sup> cells
<b>Throughput</b>	8 samples/day	12 samples/day
<b>Protocol Turnaround Time</b>	4 hours	4 hours
<b>Typical Yield</b>	45-90 ng/µl	45-90 ng/µl
<b>Typical Molecule N50</b>	Over 250 kbp	Over 250 kbp
<b>Map Rate with DLS Enzyme</b>	>80%	>80%

**Learn how you can get average DNA molecules as long as 400 kbp with the Bionano SP BMA DNA Isolation Kit.**



Size distribution of DLS labeled SP gDNA molecules isolated from frozen BMA (Heparin+DNA Stabilizer), analyzed on the Bionano Saphyr® system and the number of accumulated DNA molecules is plotted as a function of size.

Ordering Information:

CATEGORY	Part No.	Product
KITS	<b>80042</b>	Bionano Prep SP Blood and Cell DNA Isolation Kit v2 (10 Reactions)
	<b>90103</b>	Bionano Prep SP BMA DNA Isolation Kit v2 (10 Reactions)

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