

Introducing the **MAGBIO**
Long-Read Sequencing DNA
Extraction Kit

The New HighPrep HMW DNA Kit



**The solution scientists
have been waiting for**

Many DNA extraction kits fall short in providing adequate DNA input of High Molecular Weight, posing a significant challenge for researchers.

The Molecular Applications of the HMW DNA Kit

- Long read sequencing
- Next generation sequencing
- Microarray
- PCR amplification and genotyping
- Restriction enzyme digestion
- Sanger Sequencing
- Cloning



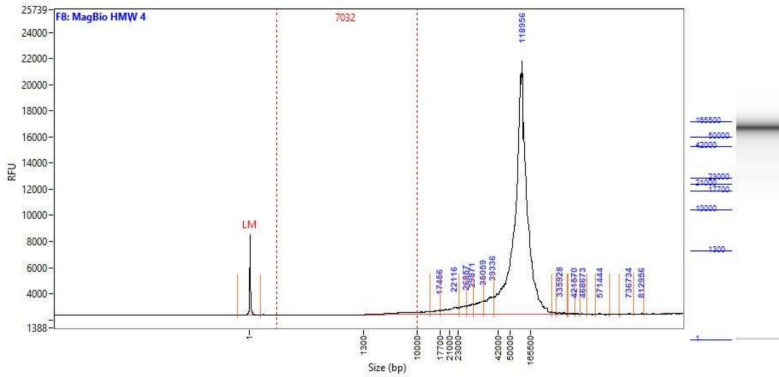
Why use the HighPrep HMW DNA KIT?



- High & Ultra-High Molecular Weight DNA Extraction 50–300kb+
- Comes with RNase to minimize the co-purification of RNA
- Easily Bind, wash, & elute with our magnetic processing system.
- Applicable to diverse sample types
- Highly Reproducible Results
- Automation Friendly

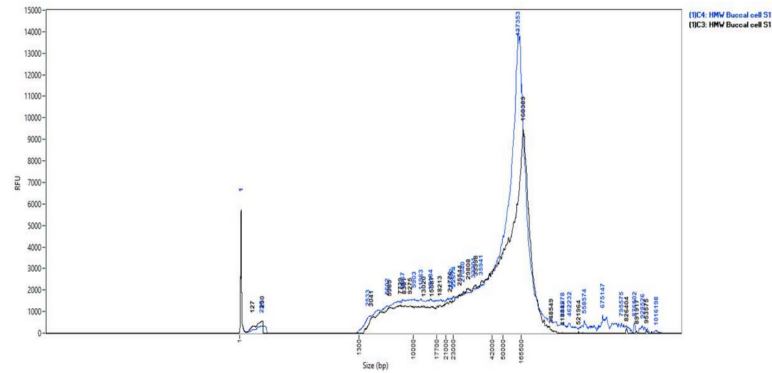
High Molecular Weight DNA Extraction from whole blood

Extraction of gDNA from 200µL of Human Whole Frozen Blood



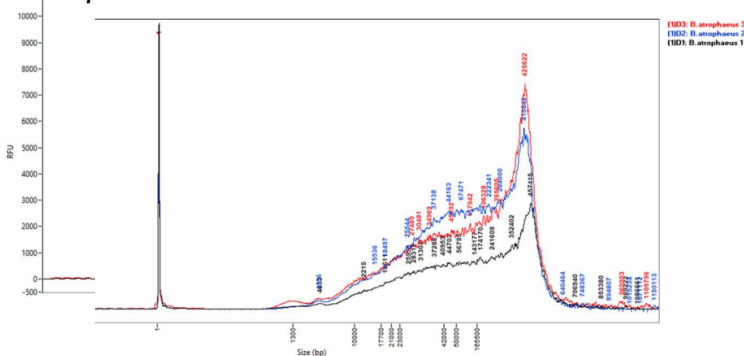
High Molecular Weight DNA Extraction from buccal cells

Extraction of gDNA from 200µL of Human Buccal cells



High Molecular Weight DNA Extraction from *Bacillus atrophaeus*

Extraction of gDNA from 200µL of *Bacillus atrophaeus*



DNA Purity & Yield of the Extracted High Molecular Weight DNA

Delivering top-tier HiFi sequencing results across diverse sample types

Sample Matrix	Sample Input Volume	Average Purity (A260/A280)	Average Purity (A260/A230)	Average Yield (ug)
Whole Blood	200 µL	1.8	1.9	4-6
Saliva	200 µL	1.8	1.7-1.8	4-6
Buccal cells	200 µL	1.8	1.7-1.8	2-5
Bacteria (<i>Bacillus atrophaeus</i>)	OD600 = 1 or near 1 (pellet)	1.8	1.7-1.8	3-5



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