

HighPrep HMW DNA Kit

Magnetic bead based purification of High Molecular Weight (HMW) DNA

Description

The HighPrep HMW DNA Kit is designed for the isolation of high molecular genomic DNA from saliva, cultured cells, tissue samples, bacteria and whole blood.

The DNA extraction protocol ensures the isolation of high yield and quality HMW DNA with good purity; suitable for long read sequencing and genotyping applications. Typical purity ratio (A260/A280 and A260/A230) is > 1.7. The kit comes with RNase A which minimizes co-purification of RNA. DNA fragment size varies by sample type, with fragments in excess of > 300 kb obtained in some cases.

Overall Benefits

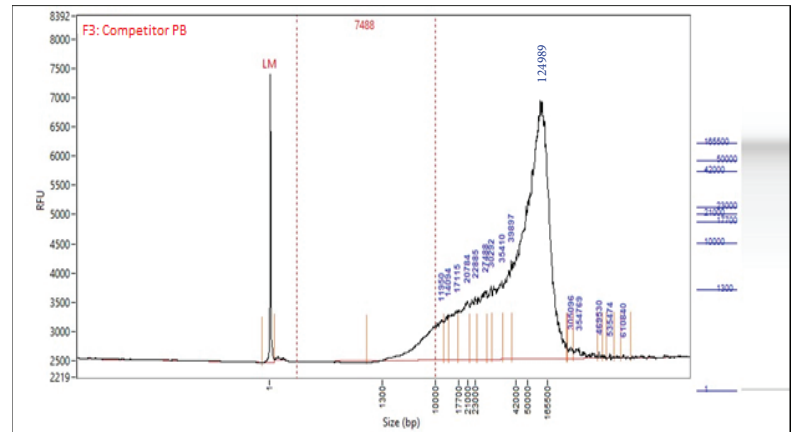
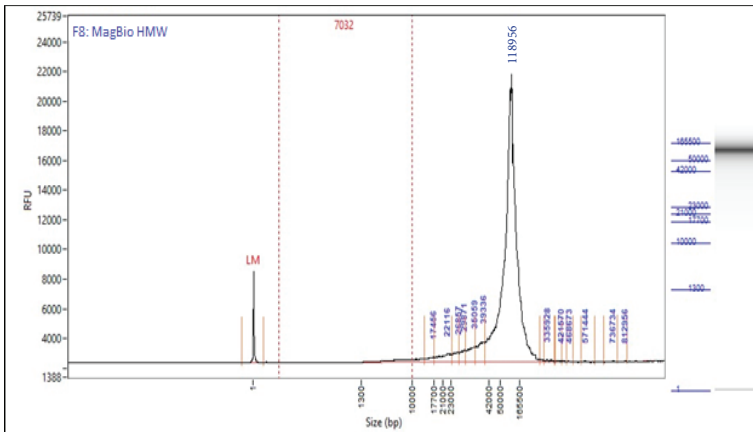
- Isolates high-molecular weight DNA and minimizes DNA shearing; DNA is suitable for long read sequencing and other genomic studies
- Provides superior recovery, length and purity of DNA
- Amenable to automation

Performance: DNA Yield and Quality

| Product Name | Input Volume | Average Yield (µg) | Average Purity (A260/A230) | Average Purity (A260/A280) | GQN |
|-----------------------------|--------------|--------------------|----------------------------|----------------------------|-----|
| MagBio HighPrep HMW DNA Kit | 200 µL | 6 | 1.9 | 1.82 | 10 |
| Company PB HMW DNA Kit | 200 µL | 5.3 | 1.85 | 1.80 | 10 |

Femtopulse Analysis: HMW DNA Extracted from 200 µL of Frozen Human Whole Blood

MagBio HMW vs. Competitor PB



| Product Name | DNA Peak Analysis | | |
|-----------------------------|------------------------|------------------------------------|------------------------------------|
| | DNA length below 50 kb | DNA length between 100 kb - 200 kb | DNA length between 300 kb - 500 kb |
| MagBio HighPrep HMW DNA Kit | 14.5% | 85.2% | 0.3% |
| Company PB HMW DNA Kit | 45.4% | 53.4% | 1.2% |

Ordering Information

| Catalog Number | Product |
|----------------|----------------------------------|
| HPHMW-D96 | HighPrep HMW DNA Kit (96 Preps) |
| HPHMW-D96x4 | HighPrep HMW DNA Kit (384 Preps) |



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