

XpressPure Size Select (HMW)



MAGNETIC NANOPARTICLE BASED
CLEANUP & SIZE SELECT BEADS

XpressPure SizeSelect HMW beads enable users to purify and select high molecular weight DNA fragments using MagGenome’s proprietary, reversible nucleic acid-binding chemistry of magnetic nanoparticles. XpressPure SizeSelect HMW beads can selectively bind DNA fragments up to 250kb in length with high purity, suitable for PacBio and Oxford Nanopore platforms. The performance of HMW beads is comparable with that of AMPure XP and can be used in the same volumes as AMPure XP beads without compromising the quality of the library.

Product Highlights

- Paramagnetic bead-based chemistry
- Compatible with various ultra-long read sequencing platform
- Fast magnetic response and low viscosity
- Consistent performance
- Can selectively bind DNA up to 250 kb

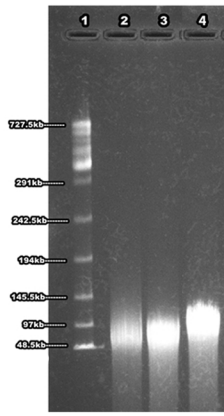


Figure 1

Figure 1: PFGE gel image showing XpressPure SizeSelect HMW Bead cleanup DNA from various samples 1- Lambda PFG Ladder (Size range: 48.5 - 1,018 kb), 2- Saliva DNA cleanup using XpressPure SizeSelect HMW Bead, 3- Blood DNA cleanup using XpressPure SizeSelect HMW Bead, 4- Plant DNA isolated using XpressPure SizeSelect HMW Bead.

QC Data from Oxford Nanopore sequencing

Parameters	XpressPure SizeSelect HMW Bead	Competitor XP
Total no of reads generated	294,097	107,501
Longest read	2,44,795 bp	1,15,529 bp

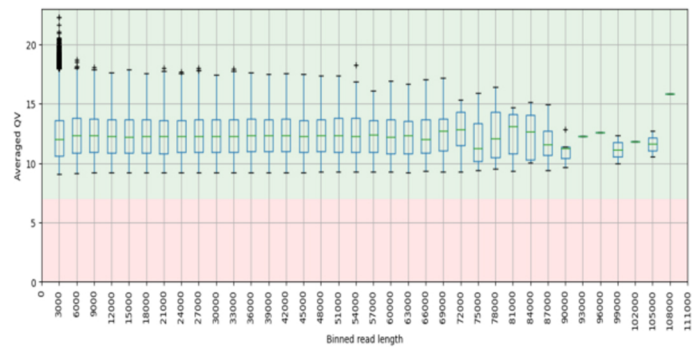


Figure 2

Figure 2: Graph showing the sequence read length and the average quality score of sequences obtained during Nanopore MinION sequencing.

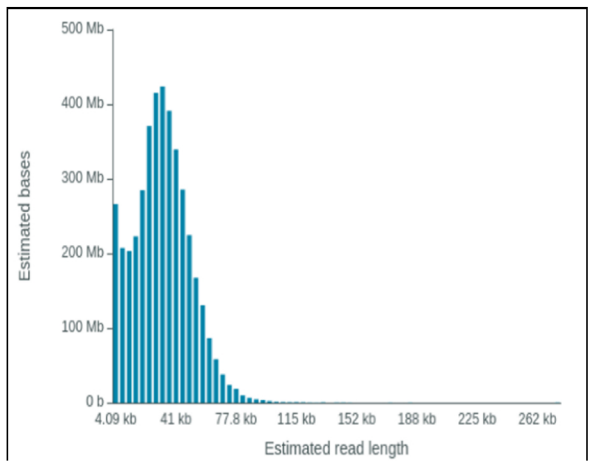


Figure 3

Figure 3: Graph displaying the Nanopore MinION sequencer output with the estimated read length histogram using DNA prepared with XpressPure SizeSelect HMW beads

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