

# DNA Normalization Magnetic Beads (NGS, PCR, gDNA)

## Less than two-fold normalized range

The **DNA Normalization Magnetic Beads (NGS, PCR, gDNA)** was developed for normalization of NGS libraries, PCR fragments, sheared genomic DNA, and genomic DNA based on our magnetic bead technology. Magnetic beads has DNA-binding capacity. With the limitation of the DNA-binding capacity, normalized amount of DNA is recovered, and excess unbound DNA is separated.

The protocol is simple, fast, centrifugation free, and filtration free. Additional DNA quantification and dilution is not necessary after DNA normalization with magnetic beads. Labor, time, and reagent are saved with the normalization beads.

### Specifications

|                      | NGS Library      | PCR Fragment     | Genomic DNA      |
|----------------------|------------------|------------------|------------------|
| DNA Input            | > 300 ng         | > 300 ng         | > 500 ng         |
| Normalized Range     | 100-200 ng       | 100-200 ng       | 200-300 ng       |
| Elution Volume       | > 20 $\mu$ l     | > 20 $\mu$ l     | > 20 $\mu$ l     |
| Unbound DNA Recovery | Yes (Cat# 40072) | Yes (Cat# 40072) | Yes (Cat# 40072) |

### Features

- Consistent normalization of various sources
  - NGS libraries
  - PCR fragments
  - Genomic DNA
  - Sheared genomic DNA
- Recovery of excess unbound DNA (Cat.# 40072S and 40072L)
- Excellent dynamic range
  - NGS library, PCR, sheared genomic DNA: 7-fold difference in input DNA
  - Genomic DNA: 10-fold difference in input DNA
- Simple and fast protocol with double-stranded DNA output
- No fluorescent quantification needed
- No centrifugation, no filtration

### Applications

- NGS library normalization
- Targeted enrichment
- PCR normalization
- Genomic DNA and sheared genomic DNA normalization

| Kit list   | Cat.# |
|--|-------|
| DNA Normalization Magnetic Beads (NGS, PCR, gDNA) without Recovery Beads | 40071 |
| DNA Normalization Magnetic Beads (NGS, PCR, gDNA) with Recovery Beads    | 40072 |

Normalization of  
**NGS libraries**  
**PCR fragments**  
**Genomic DNA**

Normalized Range  
**Within two-fold**

Recovery of  
**Unbound DNA**



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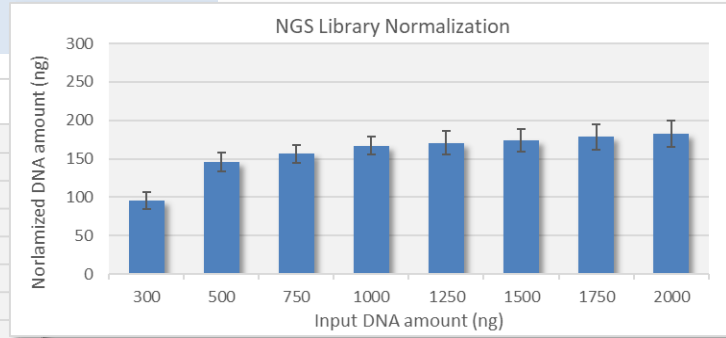
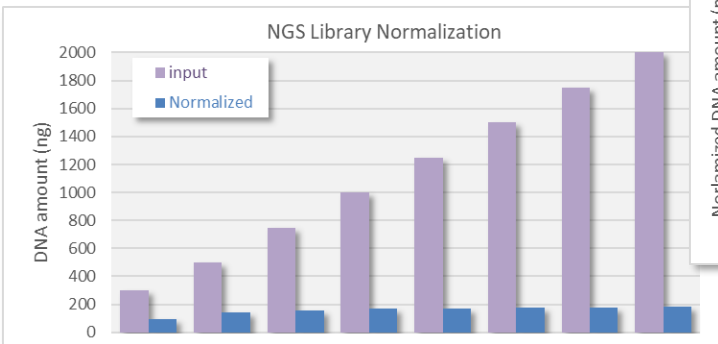
Fast  
Simple  
Affordable  
High-Quality



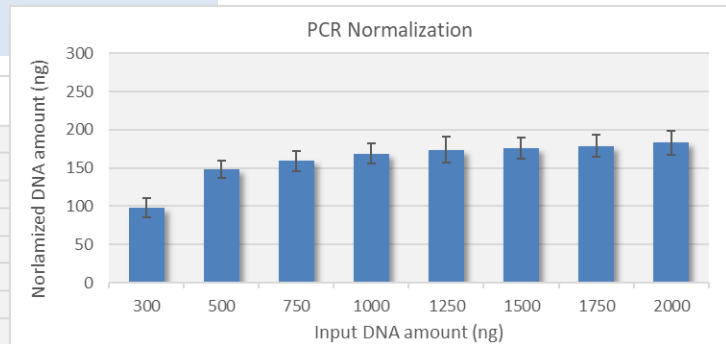
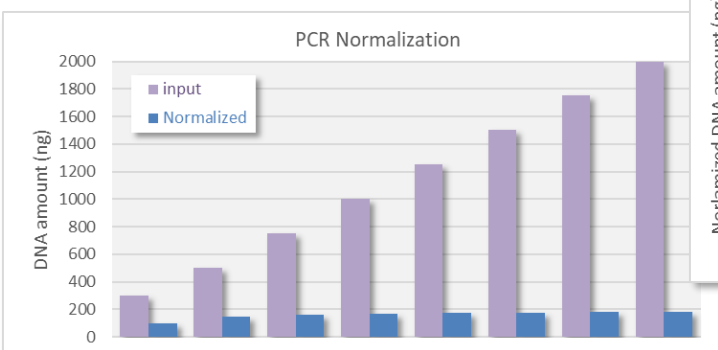
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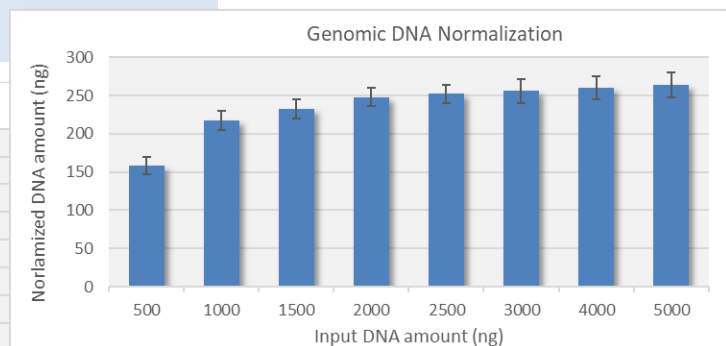
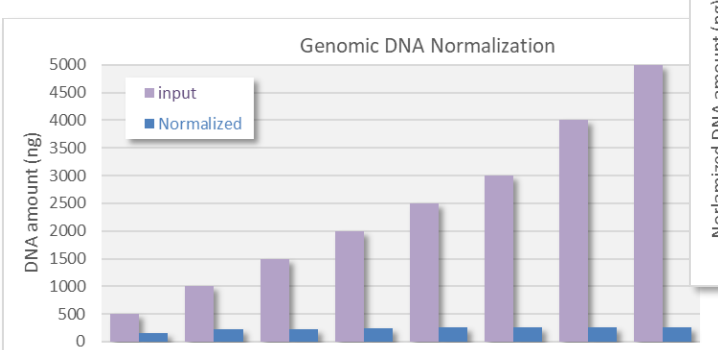
## NGS library



## PCR fragment



## Genomic DNA



More details at <https://biodynami.com/product/dna-normalization-magnetic-beads>



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