

# Do you do nucleic acid extraction and/or purification? Upgrade your kit to save on time and money!

**AXYGEN**

A Corning Brand



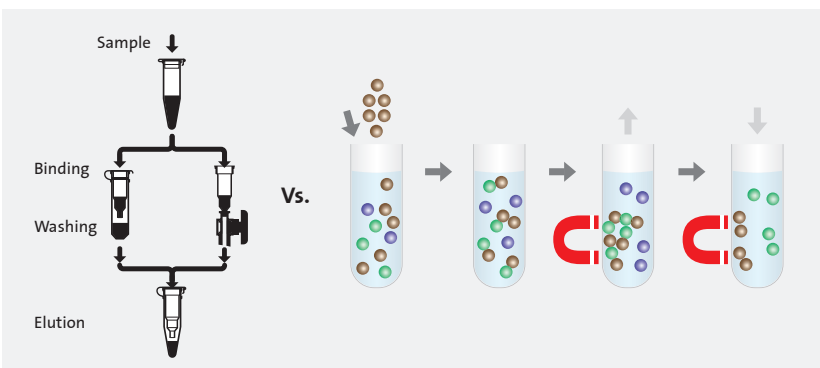
## Compared against spin-column and reagent-based methods:

- ▶ Easy, simplified protocols
  - ≤60 minutes for 96 preps
  - Reduced processing time by 50% (Figure 1)
- ▶ Scalable: one product fits multiple volume needs (ratio-based) rather than requiring separate kits (mini, midi, maxi, or mega)
- ▶ High yield and high purity (Figures 2 and 3)
- ▶ Free of major hazardous chemicals
- ▶ Automation friendly

## Compare with other magnetic bead brands:

- ▶ Cleaner primer dimer removal (Figure 4)
- ▶ Comprehensive product offering for:
  - Sample types include PCR amplicon, bacteria, blood and mammalian tissue, plant, and more.
  - Number of preps: 10 preps to 35,000 preps
  - Ideal for DNA sequencing, PCR clean-up, library screening, and other downstream applications.
- ▶ Axygen AxyPrep IMAG MSDs utilizes strong magnets for faster separation, in less than 30 seconds (Figure 5)

## Performance Specifications

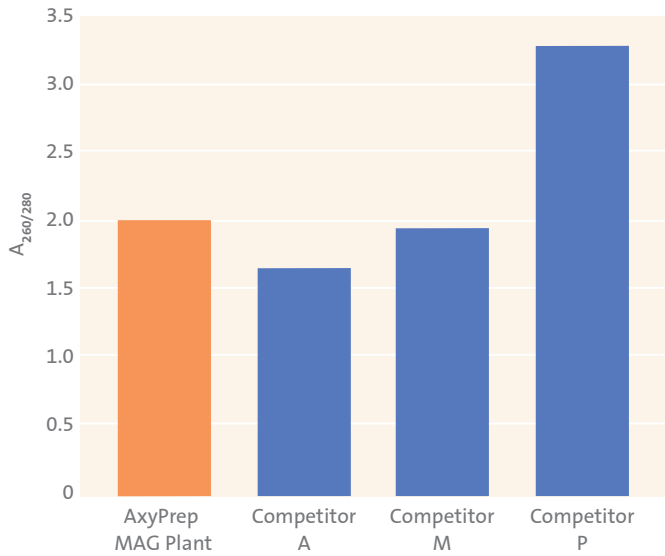


**Figure 1.** Typical column-based filtration kits and Axygen® AxyPrep MAG kits follow three standard steps: binding, washing, and elution. Axygen AxyPrep MAG kits utilize the AxyPrep IMAG handheld device for fast separation in less than 30 seconds.

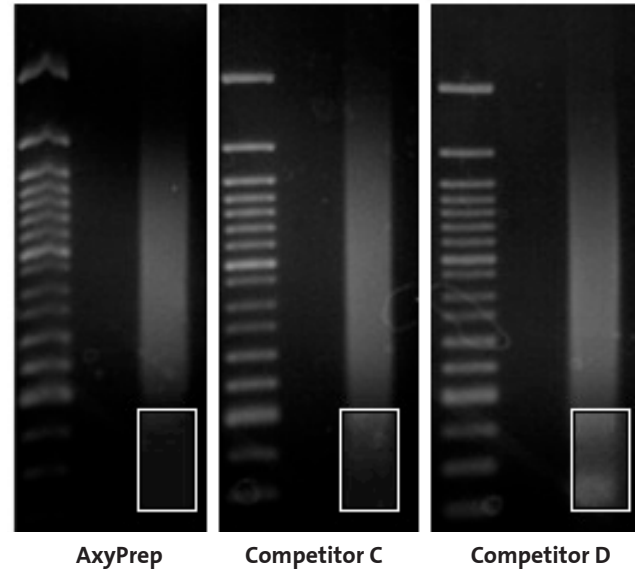
**Figure 2.** Axygen® AxyPrep MAG Plasmid kit provides a 25% increase in yield and optimized ratio  $A_{260/280}$  compared to competitor column-based filtration kits. Average of 3 data points.

|                                 | High Copy Bacteria |       |       |              |      |      |              |      |      |
|---------------------------------|--------------------|-------|-------|--------------|------|------|--------------|------|------|
|                                 | AxyPrep            |       |       | Competitor A |      |      | Competitor B |      |      |
| Ratio ( $OD_{260/280}$ )        | 1.94               | 1.93  | 1.93  | 1.79         | 1.64 | 1.80 | 1.97         | 1.97 | 2.00 |
| Yield ( $\mu\text{g}$ )         | 11.93              | 10.81 | 11.14 | 8.03         | 7.32 | 8.37 | 8.13         | 8.27 | 9.18 |
| Average Yield ( $\mu\text{g}$ ) | 11.29              |       |       | 7.91         |      |      | 8.53         |      |      |

**Figure 3.** The  $A_{260/280}$  ratio for Axygen AxyPrep Plant gDNA extraction kits are within the range of 1.80 to 2.0, which are comparable or better when compared against competitors A, M, and P.



**Figure 4.** Axygen AxyPrep MAG PCR Clean-up kit provides cleaner primer dimer removal compared to other brands, with no DNA carry over.



**Figure 5.** Separation of Magnetic Beads in Microplate and Tube Format

IMAG-96P: microplate format



10 seconds after the separation process



20 seconds after the separation process



30 seconds after the separation process

IMAG-12T: tube format



10 seconds after the separation process



20 seconds after the separation process



30 seconds after the separation process

## Ordering Information

### Axygen® AxyPrep MAG Kits

| Cat. No.          | Description                                | Suggested Number of Preps | Uses                                                       | Applications                                                    |
|-------------------|--------------------------------------------|---------------------------|------------------------------------------------------------|-----------------------------------------------------------------|
| MAG-PCR-CL-1      | AxyPrep MAG PCR Clean-up - 1 mL            | 28 to 56                  | Clean-up PCR amplicons                                     | Sanger and Next Gen Sequencing (NGS), genotyping, SNP, cloning  |
| MAG-PCR-CL-5      | AxyPrep MAG PCR Clean-up - 5 mL            | 139 to 278                |                                                            |                                                                 |
| MAG-PCR-CL-50     | AxyPrep MAG PCR Clean-up - 50 mL           | 1,389 to 2,778            |                                                            |                                                                 |
| MAG-PCR-CL-250    | AxyPrep MAG PCR Clean-up - 250 mL          | 6,944 to 13,889           |                                                            |                                                                 |
| MAG-CONDNA-10     | AxyPrep MAG DNA Concentrate                | 10                        | Concentrate purified DNA from diluted eluate               | Sanger and NGS                                                  |
| MAG-CONDNA-5      | AxyPrep MAG DNA Concentrate                | 96                        |                                                            |                                                                 |
| MAG-CONDNA-M      | AxyPrep MAG DNA Concentrate                | 384                       |                                                            |                                                                 |
| MAG-PLANT-GDNA-10 | AxyPrep MAG Plant gDNA                     | 10                        | Extract gDNA from plant tissues                            | Sanger and NGS, genotyping, SNP, qPCR                           |
| MAG-PLANT-GDNA-5  | AxyPrep MAG Plant gDNA                     | 96                        |                                                            |                                                                 |
| MAG-PLANT-GDNA-M  | AxyPrep MAG Plant gDNA                     | 384                       |                                                            |                                                                 |
| MAG-STL-5         | AxyPrep MAG Soil, Stool, and Water DNA     | 96                        | Extract DNA from soil, stool, and water samples            | Sanger and NGS, genotyping, SNP, qPCR                           |
| MAG-STL-M         | AxyPrep MAG Soil, Stool, and Water DNA     | 384                       |                                                            |                                                                 |
| MAG-VNA-5         | AxyPrep MAG Viral Nucleic Acid             | 96                        | Extract nucleic acid from RNA/DNA samples                  | Sanger and NGS, genotyping, SNP, qPCR                           |
| MAG-VNA-M         | AxyPrep MAG Viral Nucleic Acid             | 384                       |                                                            |                                                                 |
| MAG-DYECL-1       | AxyPrep MAG DyeClean - 1 mL                | 140 to 200                | Efficiently remove primer-dimers from PCR amplicons        | Sanger and NGS, post PCR clean-up                               |
| MAG-DYECL-5       | AxyPrep MAG DyeClean - 5 mL                | 500 to 700                |                                                            |                                                                 |
| MAG-DYECL-50      | AxyPrep MAG DyeClean - 50 mL               | 5,000 to 7,000            |                                                            |                                                                 |
| MAG-DYECL-250     | AxyPrep MAG DyeClean - 250 mL              | 25,000 to 35,000          |                                                            |                                                                 |
| MAG-FFPE-10       | AxyPrep MAG FFPE (DNA-RNA- miRNA)          | 10                        | Extract nucleic acids from low amounts of sample           | Diagnostics development, sequencing, qPCR                       |
| MAG-FFPE-M        | AxyPrep MAG FFPE (DNA-RNA- miRNA) - Medium | 96                        |                                                            |                                                                 |
| MAG-FFPE-L        | AxyPrep MAG FFPE (DNA-RNA- miRNA) - Large  | 384                       |                                                            |                                                                 |
| MAG-FRAG-I-1      | AxyPrep FragmentSelect-I - 1 mL            | 15 to 30                  | Clean and select desired DNA fragments from 150 bp to 1 kb | NGS on Illumina® and Ion Torrent®, library construction         |
| MAG-FRAG-I-5      | AxyPrep FragmentSelect-I - 5 mL            | 75 to 140                 |                                                            |                                                                 |
| MAG-FRAG-I-250    | AxyPrep FragmentSelect-I - 250 mL          | 3800 to 7000              |                                                            |                                                                 |
| MAG-FRAG-I-50     | AxyPrep FragmentSelect-I - 50 mL           | 770 to 1400               |                                                            |                                                                 |
| MAG-PCR-NM-1      | AxyPrep MAG PCR Normalizer - 1 mL          | 20                        | Avoid quantification by normalization                      | NGS                                                             |
| MAG-PCR-NM-5      | AxyPrep MAG PCR Normalizer - 5 mL          | 96                        |                                                            |                                                                 |
| MAG-PCR-NM-50     | AxyPrep MAG PCR Normalizer - 50 mL         | 384                       |                                                            |                                                                 |
| MAG-PCR-NM-250    | AxyPrep MAG PCR Normalizer - 250 mL        | 1920                      |                                                            |                                                                 |
| MAG-P-10          | AxyPrep MAG Plasmid                        | 10                        | Extract plasmid DNA from bacteria                          | Sanger and NGS, PCR amplification, restriction enzyme digestion |
| MAG-P-S           | AxyPrep MAG Plasmid - Small                | 96                        |                                                            |                                                                 |
| MAG-P-M           | AxyPrep MAG Plasmid - Medium               | 384                       |                                                            |                                                                 |
| MAG-T-10          | AxyPrep MAG Tissue-Blood gDNA              | 10                        | Extract gDNA from blood and mammalian tissues              | Sanger and NGS, genotyping, SNP, qPCR                           |
| MAG-T-GDNA-S      | AxyPrep MAG Tissue-Blood gDNA - Small      | 96                        |                                                            |                                                                 |
| MAG-T-GDNA-M      | AxyPrep MAG Tissue-Blood gDNA - Medium     | 384                       |                                                            |                                                                 |

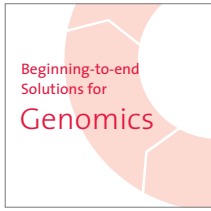
To try a free sample, contact your local Corning Account Manager.

### Axygen AxyPrep IMAG Magnetic Beads Separation Devices

| Cat. No. | Description                                                             | Qty/Cs | Use                     | Applications                                                       |
|----------|-------------------------------------------------------------------------|--------|-------------------------|--------------------------------------------------------------------|
| IMAG-12T | IMAG magnetic handheld device for Axygen 1.5 and 2.0 mL screw cap tubes | 1      | Fast separation of gDNA | Nucleic acid, antibody and protein purification, cell based assays |
| IMAG-96P | IMAG universal magnetic handheld device for PCR and 96-well microplates | 1      |                         |                                                                    |

### Accessories for Axygen AxyPrep IMAG Magnetic Beads Separation Devices

| Cat. No.     | Description                                         | Qty/Pk | Qty/Cs |
|--------------|-----------------------------------------------------|--------|--------|
| SCT-050-SS-C | 0.5 mL self standing screw cap tube with cap        | 500    | 4,000  |
| SCT-200-SS-C | 2.0 mL self standing screw cap tube with cap        | 500    | 4,000  |
| PCR-96-FS-C  | 96-well PCR full skirt microplate with single notch | 10     | 50     |



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