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Universal Coupling

The Flexibility to Use Any Particle and Protein Has Arrived

World's First Universal Coupling Kit

- For activation of carboxylated magnetic and non-magnetic particles from 200 nm to 3 µm
- Flexibility to couple antibodies, antigens and problematic proteins
- Built upon Anteo's Mix&Go™ technology using chelation and coordination chemistry
- Kit includes everything required to activate, couple and store protein-coupled particles
- Reduce reagent preparation time by 3–4 hours
- Store activated particles for up to one year



AMG™ Universal Coupling Kit

Experience the flexibility of the first surface coupling solution that can accommodate your choice of commonly-used particles and proteins.

The **AMG Universal Coupling Kit** has been tested with over 30 magnetic and non-magnetic (PS, PAA, Silica, PVA), carboxylated particles, and a broad range of proteins, including single and multi-domain, mammalian and bacterial, native and recombinant.

Anteo Mix&Go

Employing a unique mechanism to immobilise proteins, Mix&Go advantages outweigh those of conventional covalent chemistries such as NHS/EDC or passive binding. This facilitates coupling of antibodies with ease, improved functionality and reproducibility, leading to better uniformity between experiments.

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Particle Compatibility

Ranges of particles from various suppliers were tested for compatibility and basic validation with the **AMG Universal Coupling Kit**. Particles vary from 200 nm to 3 µm, with a range of carboxyl surface densities and underlying particle materials, including polystyrene, silica, and polyvinyl acetate.

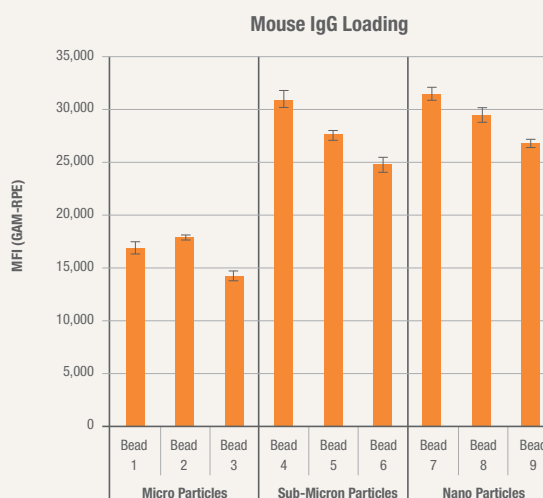
Selection of the 30+ particles tested

| Particles | | | | |
|---|--------|---------------------|--------------|----------------------|
| Supplier | Size | Material | Magnetic | |
| Bangs ProMag (PMC3N) | 2.8 µm | PS | Magnetic | Micro Particles |
| Agilent LodeStars Carboxyl | 2.7 µm | PS | Magnetic | |
| ThermoFisher Dynabeads M-270 Carboxylic Acid | 2.6 µm | PS | Magnetic | |
| Merck Millipore Estapor (M1-200/20) | 2 µm | PS | Magnetic | |
| JSR Micro Magnosphere (MS300/Carboxyl) | 3 µm | PS | Magnetic | |
| JSR Micro Magnosphere (MS160/Carboxyl) | 1.5 µm | Hydrophilic polymer | Magnetic | |
| JSR Micro Magnosphere (MX100/Carboxyl) | 1.1 µm | Hydrophobic polymer | Magnetic | |
| Allrun AllMag (PM3-050) | 1 µm | PS | Magnetic | Sub-Micron Particles |
| Bangs ProMag (PMC1N) | 1 µm | PS | Magnetic | |
| GE Sera-Mag SpeedBeads | 1 µm | PS | Magnetic | |
| Merck Millipore Estapor (EM1-100/40) | 1 µm | PS | Magnetic | |
| PerkinElmer Chemagen M-PVA (C21) | 1 µm | PVA | Magnetic | |
| ThermoFisher Dynabeads MyOne Carboxylic Acid | 1 µm | PS | Magnetic | |
| ademtech Carboxyl-Adembeads 500 nm | 500 nm | PS | Magnetic | |
| ThermoFisher Blue Colored Carboxylate-modified (DB1040CA) | 400 nm | PS | Non-Magnetic | Nano Particles |
| Microparticles Polystyrene particles (PS-MAG-COOH-S2632) | 350 nm | PS | Magnetic | |
| Merck Millipore PureProteome Carboxy FlexiBind | 300 nm | PS | Magnetic | |
| ademtech Carboxyl-Adembeads 200nm | 200 nm | PS | Magnetic | |
| Allrun AllMag (PM3-020) | 200 nm | PS | Magnetic | |
| Merck Millipore Estapor (M1-020/50) | 200 nm | PS | Magnetic | |

Antibody Coupling and Loading on Commonly-Used Particles

A subset of screening results using mouse IgG directly loaded onto selected particles using the AMG Coupling Kit and detected with goat anti-mouse IgG RPE: Fluorescent loading assay (anti-mouse IgG) demonstrates that coupling is successful across a range of commonly used particles.

Loading varies between particles due to differences in size, carboxylic acid density and surface characteristics.



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