

Type	Properties	Applications	Variations
Carboxylate-modified magnetic beads	<ul style="list-style-type: none"> • Can associate with nucleic acids for direct capture. • Surface suitable for conjugation through covalent bonding. • Can capture molecules containing amino groups. 	<p>Conjugation or direct binding applications:</p> <ul style="list-style-type: none"> • Covalent attachment • Affinity purification and pull-down • Nucleic acid isolation and purification 	High-speed version available
Amine-blocked magnetic beads	<ul style="list-style-type: none"> • Surface suitable for conjugation through covalent bonding. • Non-surfactant, non-protein-blocked surface. • Low non-specific binding. 	<p>Conjugation applications, similar to carboxylate-modified beads.</p>	High-speed version available
Oligo(dT)-coated magnetic beads	<ul style="list-style-type: none"> • Hybridizes with mRNA poly-A tails. • High colloidal stability. 	<p>mRNA binding applications:</p> <ul style="list-style-type: none"> • mRNA extraction and purification • RT-PCR • cDNA library construction • Subtractive hybridization • NGS (RNA sequencing) 	•
Streptavidin-coated magnetic beads	<ul style="list-style-type: none"> • Binds biotinylated ligands such as proteins, nucleic acids, and peptides. • Covalently bound streptavidin coating. • Fast reaction kinetics. • Low non-specific binding. • High throughput and precision. 	<p>Immunoassay and molecular biology applications:</p> <ul style="list-style-type: none"> • Sample preparation and assay development for genomics and proteomics. 	<p>High-speed version available</p> <p>Biotin binding ranges:</p> <ul style="list-style-type: none"> • 2500 to 3500 pmol/mg • 3500 to 4500 pmol/mg
Streptavidin-blocked magnetic beads	<ul style="list-style-type: none"> • Binds biotinylated ligands such as proteins, nucleic acids, and peptides. 	High-specificity biotin binding applications	<p>4500 to 5500 pmol/mg</p> <p>High-speed version available</p>

	<ul style="list-style-type: none"> • Non-surfactant, non-protein-blocked surface. • Lower non-specific binding than streptavidin-coated beads via additional blocking of non-specific binding sites. 	<ul style="list-style-type: none"> • Molecular and immunodiagnostics • NGS library preparation 	
NeutrAvidin™-coated magnetic beads	<ul style="list-style-type: none"> • Binds biotinylated ligands such as proteins, nucleic acids, and peptides. • Fast reaction kinetics. • Low non-specific binding. • High throughput and precision. 	<p>Alternative to Streptavidin in immunoassay and molecular biology applications:</p> <ul style="list-style-type: none"> • Sample preparation and assay development for genomics and proteomics. 	<p>High-speed version available Biotin binding range:</p> <ul style="list-style-type: none"> • 3500 to 4500 pmol/mg
Protein A/G magnetic beads	<ul style="list-style-type: none"> • Binds IgA and IgG proteins • Coating based on IgA/IgG fusion protein. • Broad binding capabilities. 	<p>Antibody isolation applications:</p> <ul style="list-style-type: none"> • Affinity purification and pull-down • Immunoprecipitation 	
Silica-coated magnetic beads	<ul style="list-style-type: none"> • Reversibly binds nucleic acids based on salt concentration. • Monodisperse particles with narrow size ranges of 400 µm or 700 µm. 	<p>Applications with low sample amounts</p> <ul style="list-style-type: none"> • Nucleic acid extraction for molecular diagnostics applications such as qPCR. 	
Mag-sepharose	<ul style="list-style-type: none"> • Broad range of ligand options. • Porous, providing greater surface area than other magnetic beads. 	<p>Convenient alternative to sepharose columns, with protein purification applications including:</p> <ul style="list-style-type: none"> • Affinity purification or capture • Immunoprecipitation 	