



MAGSI BEADS AND KITS MAGNETIC BEADS

made by magtivio

GENERAL PARAMETERS AND RECOMMENDED APPLICATIONS

Bead surface	Compatible Buffer Systems	Binding Mechanism	Elution	Advantage
Silica Beads	Chaotropic buffers	Precipitation with chaotropic salts	Low salt conditions	Recommended in case chaotropic conditions can be applied.
Carboxylated Beads	PEG-based, low pH or chaotropic buffers	Precipitation by polymers like PEG, divalent cations (e.g. Mg^{2+}) or chaotropic salts	Low salt conditions or pH shift from acidic binding to alkaline conditions	Recommended if flexibility in buffer systems is necessary or if non-chaotropic conditions have to be applied. Results in higher purity and recovery rate under non-chaotropic conditions.

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PARAMETERS FOR USE

MagSi	Ord. No.	Ø Bead size	Concentration	Bead surface	Isolation of	Suitable buffers	Characteristic
DNA	1540	0,3 µm	300 mg/ml	silica	nucleic acids	chaotropic	Fast magnetic separation, very large total surface, high yield
DNA 600	1542	0,6 µm	20 mg/ml	silica	nucleic acids	chaotropic	Slow magnetic separation, for long incubation times
DNA allround	1544	1,2 µm	20 mg/ml	silica	nucleic acids	chaotropic	Medium magnetic separation
DNA 3.0	1549	3 µm	20 mg/ml	silica	nucleic acids	chaotropic	Ultra fast magnetic separation, for rapid preparations
DNA COOH	1552	0,3 µm	300 mg/ml	carboxylated	nucleic acids	variable	Fast magnetic separation, very large total surface, high yield
DNA 600 COOH	1557	0,6 µm	20 mg/ml	carboxylated	nucleic acids	variable	Slow magnetic separation, for long incubation times
DNA allround COOH	1558	1,2 µm	20 mg/ml	carboxylated	nucleic acids	variable	Medium magnetic separation
DNA 3.0 COOH	1559	3 µm	20 mg/ml	carboxylated	nucleic acids	variable	Ultra fast magnetic separation, for rapid preparations
STA 600	1562	0,6 µm	10 mg/ml	silica	biotinylated molecules	PBS, glycin	Slow magnetic separation, for long incubation times
STA 1.0	1561	1 µm	10 mg/ml	silica	biotinylated molecules	PBS, glycin	Medium magnetic separation
STA 3.0 L	1563	3 µm	10 mg/ml	silica	biotinylated molecules	PBS, glycin	Ultra fast magnetic separation, for rapid preparations
Direct 1.0	1615	1 µm	10 mg/ml	silica	variable	Kit buffers	Binding of customer-derived ligands, assay volumes ≤1 ml
Direct 3.0	1620	3 µm	10 mg/ml	silica	variable	Kit buffers	Binding of customer-derived ligands, assay volumes ≥1 ml
DNA Vegetal	1624	not disclosed	not disclosed	not disclosed	DNA	Kit buffers	Isolation from plant material
gDNA blood kit	1630	3 µm	20 mg/ml	carboxylated	DNA	Kit buffers	Isolation from blood samples
DNA saliva kit	1648	3 µm	20 mg/ml	carboxylated	DNA	Kit buffers	Isolation from saliva or buccal swabs

* Carboxylation may enhance purity and recovery rate.