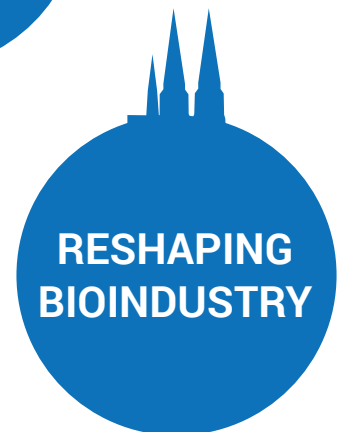


LOABeads™ AffiActive10



- **High capacity coupling of proteins**
Up to 10 mg/ml covalent coupling of proteins and peptides
- **Proprietary chemistry**
Coupling at mild conditions and resulting stable link with only 6 ppm leakage
- **Full spectrum capability**
From lab size up to industrial scale purification
- **Saving time and money**
Parallel processing, zero downtime and no more large capital investments

LOABeads™ AffiActive10

Covalently couple proteins and peptides to super-paramagnetic agarose beads and use them for downstream affinity purification of target molecules from complex samples, without the need for expensive instruments. The black beads are clearly visible, strongly attracted to external magnets, and easily resuspended.

The protein or peptide is coupled to the beads using proprietary chemistry under mild conditions at neutral pH. The resulting covalent bond is stable with a low leakage at 6 ppm for protein A (in-house data). The covalent immobilization of ligand is fast and efficient, with over 90% coupling efficiency reached after only 30 min under standard test conditions (Fig 1).

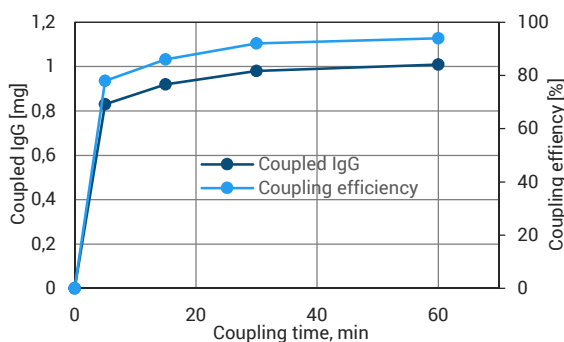


Fig 1. Coupling efficiency as dependent on time of coupling of IgG to LOABeads AffiActive10 magnetic particles. 100 µl beads were incubated with 1 ml rabbit IgG (1 mg/ml in PBS) for various time points, with continuous end-over-end mixing. After each termination, absorbance at 280 nm was used to estimate unbound material.

Usage

LOABeads AffiActive10 can be used in most affinity based setups, from small analytical immunoprecipitations to lab-scale preparative purification of proteins. The quantity of beads can readily be scaled up or down to match application.

The LOABeads System makes it possible to use magnetic separation techniques at bench scale. The beads are combined with LOABeads MagSep separators and purification can be performed in standard 15 and 50 ml centrifuge tubes, as well as 500 ml bottles. The system also enables time-saving parallel experiments with different molecules at bench scale.

Product data

Coupling to	Primary amino and thiol groups
Matrix	4% agarose
Particle size	45–165 µm
Type magnetization	Super-paramagnetic
Product form	10% bead suspension in PBS with 20% ethanol
Coupling capacity ¹	5–10 mg IgG/ml settled beads
Binding buffer	PBS with 0.1% Tween® 20
Storage	+2 to +8°C in PBS with 20% ethanol
Stability	24 months

¹ 90% coupling of rabbit IgG (1 mg/ml) after 60 min incubation.

"Yes, I would recommend LOABeads AffiActive10. Recoveries for our target protein from serum were higher than by conventional immunoprecipitation procedures and the AffiActive beads avoid antibody release after elution with acidic solutions."

LAURA PONT
UNIVERSITY OF BARCELONA
SPAIN

Ordering information

Products	Quantity	Product No.
LOABeads AffiActive10	1 ml beads	1301
LOABeads AffiActive10	10 ml beads	1302
LOABeads AffiActive10	50 ml beads	1303

Related Products	Quantity	Product No.
LOABeads MagSep5	1	2100
LOABeads MagSep50	1	2200
LOABeads MagSep500	1	2300

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