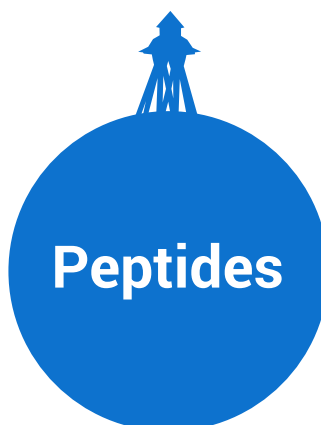
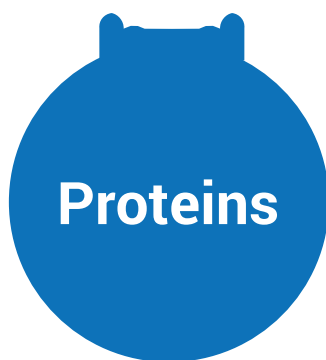
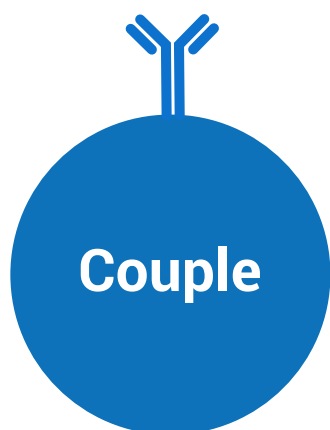


LOABeads™ AffiAmino

Magnetized bioseparation



- **Stable Link**
Leakage at 6 ppm
- **Quick Coupling**
30–60 min incubation
- **Proprietary Chemistry**
5–10 mg protein per ml beads
using primary amines or thiols
- **No Harsh Chemicals**
Coupling at physiological conditions
- **Easy Downstream Handling**
Clearly visible beads that separate and
resuspend within seconds

LOABeads™ AffiAmino

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).

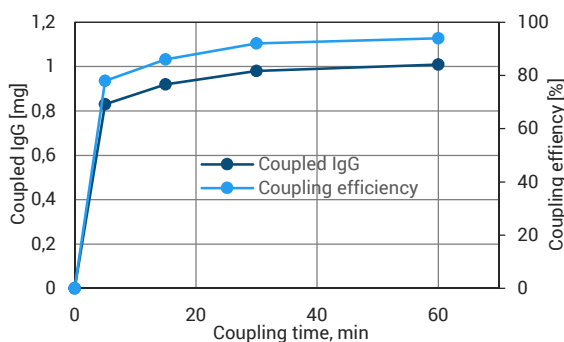


Fig 1. Coupling efficiency as dependent on time of coupling of IgG to LOABeads AffiAmino magnetic particles. 100 µl beads were incubated with 1 ml rabbit IgG (1 mg/ml in PBS) for various time points, with continuous end-over-end mixing. After each termination, absorbance at 280 nm was used to estimate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

Usage

LOABeads AffiAmino 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.

Combined with LOABeads MagSep separators, purification can be performed in standard 15 and 50 ml centrifuge tubes, as well as 500 ml bottles. This combination makes it possible to use magnetic separation techniques on a larger scale, as well as to save time by performing parallel experiments with different molecules.

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	0.5–1 mg IgG/ml bead suspension 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	12 months

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

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

LAURA PONT
UNIVERSITY OF BARCELONA
SPAIN

Ordering information

Products	Quantity	Product No.
LOABeads AffiAmino	2x1 ml 10% beads	1003-2ml
LOABeads AffiAmino	5x1 ml 10% beads	1003-5ml
LOABeads AffiAmino	10 ml 10% beads	1003-10ml

Related Products	Quantity	Product No.
NdFeB cube magnet	1	2001
LOABeads MagSep 15/50	1	3001
LOABeads MagSep 500	1	4001

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