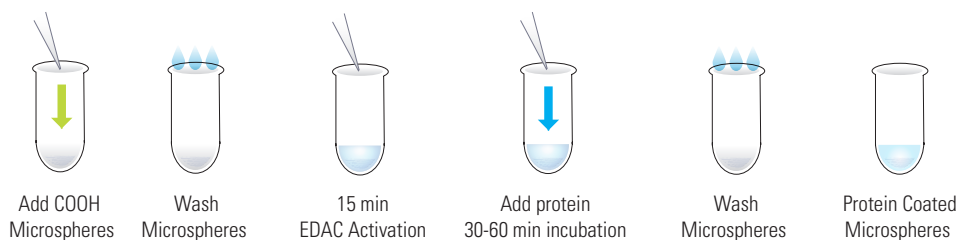


# PolyLink Protein Coupling Kit

For convenient covalent attachment of proteins to COOH microspheres.



## Making It Easier to Use Our Beads

The PolyLink Protein Coupling Kit for covalent attachment of proteins to carboxyl (COOH) modified microspheres. The kit has been optimized for use with polymeric microspheres 1µm or larger. The contents of the kit are sufficient for 50 coupling reactions using 12.5mg microspheres and 200-500µg of protein per reaction.

## Water Soluble Chemistry

By activating the carboxyl groups with water-soluble carbodiimide (EDAC), an active ester is created that is reactive toward primary amines on the protein of interest.

## KIT COMPONENTS

A step-by-step procedure is provided in our Product Data Sheet 644, PolyLink Protein Coupling Kit for COOH Microspheres, (which you may download from our website). Optimizing the protein to microsphere ratio and incubation times for your particular protein is recommended.

## The kit contains\*:

PolyLink Coupling Buffer (55mL)

PolyLink Wash/Storage Buffer (45mL)

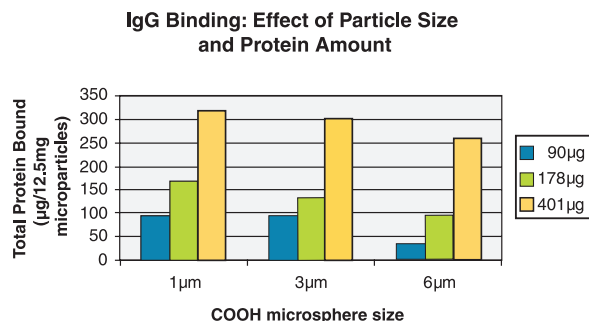
PolyLink EDAC (Carbodiimide) (750mg)

\* Reagents are sufficient for 50 coupling reactions. Microspheres sold separately.

Everything you need has been combined in one easy-to-use kit!

## EXPECTED RESULTS

The graphic below shows the effect of particle size on protein binding. Three different sizes of carboxyl-modified microspheres were exposed to three different levels of Goat anti-Rat IgG protein. The smaller particles present more surface area per unit of mass and therefore bind more total protein.



Three different sizes of carboxyl microspheres exposed to three different levels of Goat anti-Rat IgG protein.

And when you're ready to scale up or simply need to replenish a kit component, our catalog also includes EDAC, buffers, and surfactants for individual purchase.

## POLYLINK PROTEIN COUPLING KIT

| Cat. # | Product Description  |
|--------|--|
| PL01N  | PolyLink Protein Coupling Kit for COOH Micropsheres ( for 1µm or larger) |

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## ACCESSORY REAGENTS

| Cat. # | Product Description                |
|--------|------------------------------------|
| AA010  | DEPC-Carbodiimide (EDAC)           |
| AA012  | Glutaraldehyde, EM Grade, 25%      |
| AA014  | Triton® X-100                      |
| AA016  | Tween® 20                          |
| AA018  | Sodium Dodecyl Sulfate (SDS)       |
| BUFF1  | Bangs Bead Coupling Buffer, pH 4.5 |
| BUFF2  | Bangs Bead Coupling Buffer, pH 6.0 |
| BUFF3  | Bangs Bead Coupling Buffer, pH 7.4 |
| BUFF4  | Bangs Bead Coupling Buffer, pH 9.0 |
| BUFF5  | Bangs Bead Storage Buffer, pH 7.4  |
| BUFF6  | Bangs Bead Storage Buffer, pH 8.5  |
| SOLN1  | Bangs Bead Solution                |

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Triton® is a registered trademark of The Dow Chemical Company.




**Bangs Laboratories** manufactures magnetic, polymeric and silica microsphere products setting the standards for diagnostic, research, and flow cytometry applications. No matter the project, we have a product that serves or we'll work to custom-design a solution to fit. And that's not the half of it.


We also stand behind our products. Regardless of the size of your question or the size of your company, we offer tech support, absolutely free.

Sound interesting? 

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 [info@bangslabs.com](mailto:info@bangslabs.com)

 800.387.0672