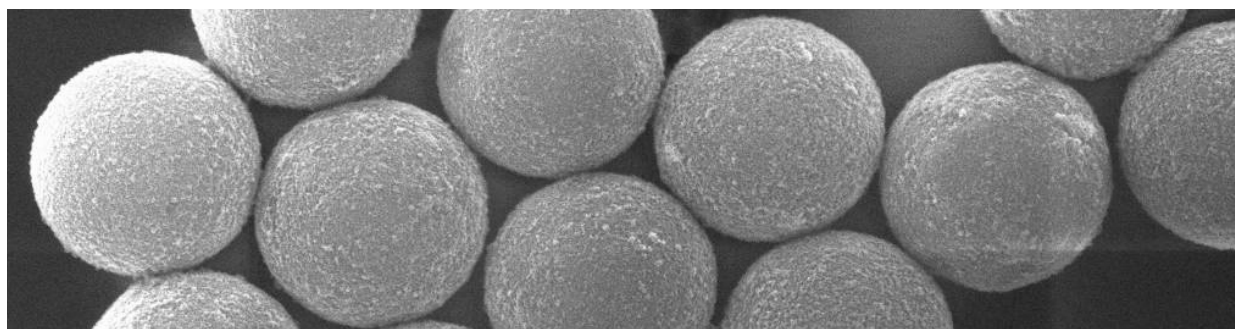


## COMPEL™

**Uniform Magnetic Microspheres are offered with excellent quality, uniformity, and reproducibility.**



Superparamagnetic particles have been utilized extensively in diagnostics and other research applications for the capture of biomolecules and cells. They confer a number of benefits, including ease of separation and suitability for automation.

When coated with recognition molecules, magnetic microspheres are used for the capture and separation of target. Unwanted sample constituents may be washed away following a simple magnetic separation step. Highly efficient magnetic separations eliminate potential interfering molecules, allowing sensitive detection of target.

### Characteristics

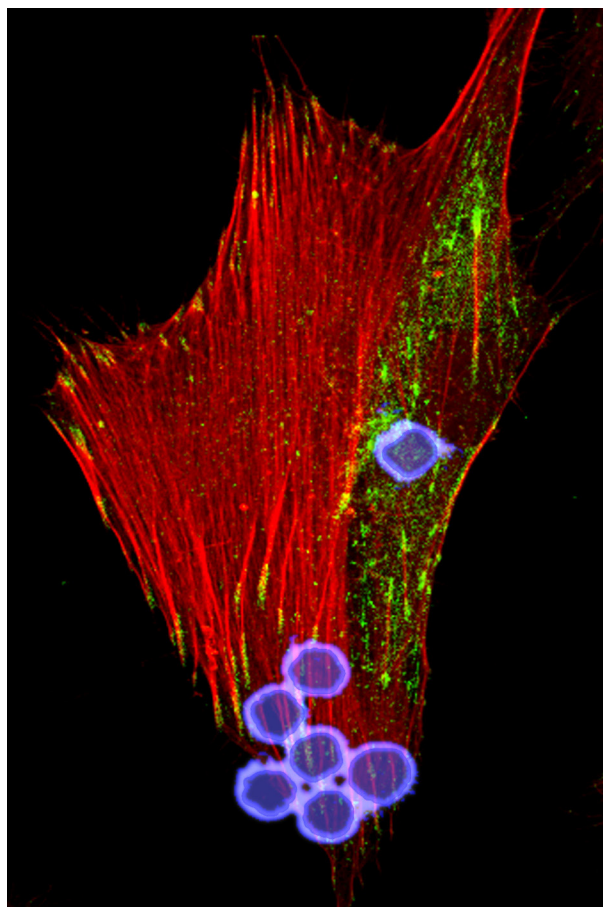
In diameters of approximately 3, 6, and 8 $\mu$ m, with CV's  $\leq$  5%, COMPEL™ microspheres are ideal for applications that demand uniform bead response, such as miniaturized bioassays and separations. The high level of functionalization permits efficient coupling of biomolecules, such as antibodies and nucleic acids.

COMPEL™ microspheres are synthesized using a proprietary process that allows the specific deposition of magnetite very near the bead surface. Beads are overcoated with polymer for the encapsulation of magnetite and introduction of reactive groups. The result is a highly-functionalized bead with a density close to that of non-magnetic polymeric beads ( $\sim$ 1.1 g/cm<sup>3</sup>).

The polymer matrix is conducive to dyeing, and our standard Glacial Blue (360, 450), Dragon Green (480, 520), and Flash Red (660, 690) fluorescent versions are available. In fact, we like to dye them so well that we used them to develop QuantumPlex™, our magnetic bead platform for suspension arrays.

COMPEL™ magnetic particles respond rapidly and efficiently to an applied magnetic field.

COMPEL™ superparamagnetic particles complement Bangs' established line of microsphere products. COOH, fluorescent COOH, and Streptavidin versions are available.



Collagen-coated (blue) 6µm COMPEL™ spheres in a study of mechanical stimulation of integrin receptors at the cell surface.

### STEPTAVIDIN COATED COMPEL™

Cat. #	Product Description
UMC0100	3µm COMPEL Steptavidin
UMC0101	6µm COMPEL Steptavidin
UMC0102	8µm COMPEL Steptavidin

### CARBOXYL COMPEL™

Cat. #	Product Description
UMC3001	COMPEL, COOH Modified, 3µm
UMC3002	COMPEL, COOH Modified, 6µm
UMC4001	COMPEL, COOH Modified, 8µm

### OTHER COMPEL™ PRODUCTS

Cat. #	Product Description
250	QuantumPlex™™ Carboxyl, 6µm
252	QuantumPlex™™ Streptavidin, 6µm

### FLUORESCENT COMPEL™

Cat. #	Product Description
UMGB001	3µm COMPEL Glacial Blue
UMGB002	6µm COMPEL Glacial Blue
UMGB003	8µm COMPEL Glacial Blue
UMDG001	3µm COMPEL Dragon Green
UMDG002	6µm COMPEL Dragon Green
UMDG003	8µm COMPEL Dragon Green
UMEG001	3µm COMPEL Envy Green
UMFR001	3µm COMPEL Flash Red
UMFR002	6µm COMPEL Flash Red
UMFR003	8µm COMPEL Flash Red



**Bangs Laboratories** manufactures polymeric, silica and magnetic 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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