



Estapor[®] Dyed Microspheres

A critical raw material for the manufacture of IVD and life sciences reagents

Dyed Microspheres

Dyed microspheres are another family of quality products offered by Estapor®. The microspheres are extremely uniform and are dyed internally (their surface properties are unchanged), insuring maximum color brilliance and preventing dye leaching in water or aqueous buffers.

The main applications for Estapor® Dyed Microspheres are the following:

- Membrane-based technologies
- Latex Agglutination tests "LAT"
- Latex Hemagglutination tests "LHT"
- Immuno-chromatographic Assays
- BioSensors and BioChips

We offer more than 100 dyed microspheres (red, blue, green, black, yellow...). This is what we call the "Rainbow Effect".

The possibility to incorporate colored dye into our uniform microspheres greatly enhances their interest and usability in some tests and opens up new frontiers for applications in the diagnostics, life sciences, biotechnology, electronics or environment fields.

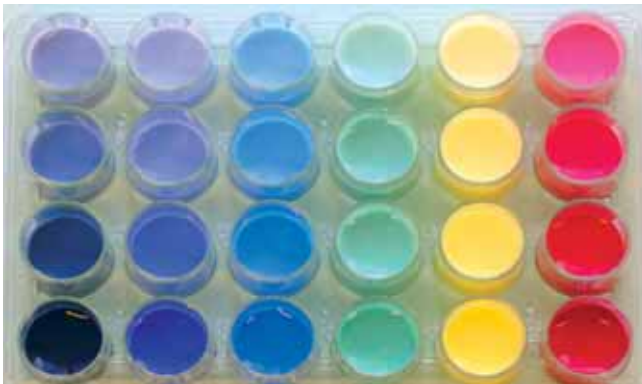


Fig.1: The Rainbow Effect

For ordering

We offer a very large selection of dyed microspheres and we make it very easy for you to order them to meet your particular application:

How to order our dyed microspheres in 4 easy steps?

- 1) Choose the color: Red, Blue, Black, Green, Yellow, Pink, etc.
- 2) Choose the surface: plain or modified such as, COOH-, NH2-, etc.
- 3) Choose the microsphere diameter from 20nm to 4µm.
- 4) Choose the amount of material you need from 5ml to bulk volume

1	2	3	4
COLOR	SURFACE	SIZE	LABEL
.....

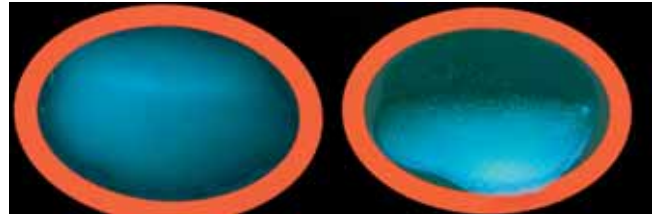


Fig. 2: xxxxxx

Small Dyed Plain Polystyrene Microspheres

Product #	Diameter (µm)	Polymer
K 005	<0,050	Polystyrene

Plain Polystyrene Microspheres

Product #	Diameter (µm)	Polymer
K 007	0,050-0,075	Polystyrene
K 010	0,076-0,125	Polystyrene
K 015	0,126-0,175	Polystyrene
K 020	0,176-0,225	Polystyrene
K 025	0,226-0,275	Polystyrene
K 030	0,276-0,325	Polystyrene
K 035	0,326-0,375	Polystyrene
K 045	0,426-0,475	Polystyrene
K 050	0,476-0,575	Polystyrene
K 070	0,576-0,740	Polystyrene
K 080	0,750-0,890	Polystyrene
K 100	0,900-1,100	Polystyrene

Large Plain Polystyrene Microspheres

Product #	Diameter (µm)	Polymer
L 200	1,800-2,200	Polystyrene
L 300	2,500-3,500	Polystyrene



Fig. 2: Lateral Flow Tests using Estapor Dyed Microspheres (reference: K1-030 blue for the control and K1-030 red for the sample).

Functionalized Dyed Microspheres

Small Carboxyl-Modified Dyed Microspheres (-COOH)

Product #	Diameter (µm)	Polymer
A1 005	0,050-0,075	Styrene-acrylate
A1 010	0,076-0,126	Styrene-acrylate

Carboxyl-Modified Dyed Microspheres (-COOH)

Product #	Diameter (µm)	Polymer
K1 005	<0,050-0,075	Polystyrene
K1 010	0,13-0,19	Polystyrene
K1 020	0,20-0,26	Polystyrene
K1 030	0,27-0,33	Polystyrene
K1 040	XXXXXX	Polystyrene
K1 050	0,45-0,53	Polystyrene
K1 080	0,76-0,94	Polystyrene
K1 100	0,95-1,10	Polystyrene

Large Carboxyl-Modified Microspheres (-COOH)

Product #	Diameter (µm)	Polymer
L1 200	2,0-2,6	Polystyrene

Amino-Modified Dyed Microspheres (-NH₂)

Product #	Diameter (µm)	Polymer
K2 025	0,210-0,260	Polystyrene
K2-080	0,760-0,940	Polystyrene

Standard Amino-Modified Microspheres (Ar-NH₂)

Product #	Diameter (µm)	Polymer
K3 020	0,150-0,200	Polystyrene
K3 025	0,210-0,260	Polystyrene
K3 030	0,260-0,350	Polystyrene
K3 080	0,800-0,940	Polystyrene

Hydroxyl-Modified Microspheres (-OH)

Product #	Diameter (µm)	Polymer
K4 005	<0,050	Polystyrene
K4 030	0,280-0,350	Polystyrene
K4 080	0,800-0,940	Polystyrene

Sulfite-Modified Microspheres (-SO₃H)

Product #	Diameter (µm)	Polymer
K5 015	0,110-0,160	Polystyrene

Quaternary Ammonium-Modified Microspheres [(-CH₃)₃N⁺]

Product #	Diameter (µm)	Polymer
K6 020	0,170-0,230	Polystyrene
K6 100	0,950-1,100	Polystyrene

Chloromethyl-Modified Microspheres (-CH₂Cl)

Product #	Diameter (µm)	Polymer
K9 020	0,170-0,230	Polystyrene
K9 080	0,800-0,940	Polystyrene

Sulfate-Modified Microspheres (-SO₄H)

Product #	Diameter (µm)	Polymer
K10 015	0,110-0,160	Polystyrene

Custom Development of Dyed Microspheres

If you are looking for dyed microspheres which are not available from our standard menu, Estapor® Microspheres can provide custom development for the Diagnostic, the Biotech and the Pharmaceutical industries. Our experience in dyed microsphere(s) development allows our technical department to quickly and inexpensively produce(s) custom microspheres to fit your very specific requirements. Please send your detailed custom requirements to your Estapor® representative. You don't have to search any further for a potential source of dyed microspheres.

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