

Estapor[®] Dyed Microspheres

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



estapor[®]
MICROSPHERES

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" (Figure 2)
- Latex hemagglutination tests "LHT"
- Immuno-chromatographic assays (Figure 3)

We offer more than 100 dyed microspheres (red, blue, green, black, yellow...). This is what we call the "Rainbow Effect" (Figure1). 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.

Order information

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 size: from 20 nm to 4 µm.
4. Choose the volume: from 5ml to bulk quantity.

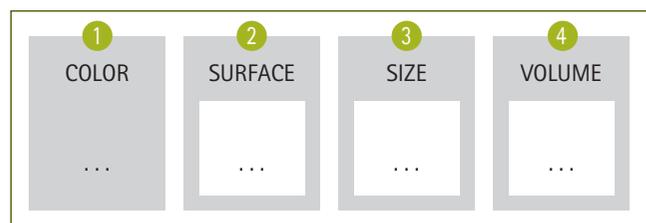


Figure 1: The Rainbow Effect

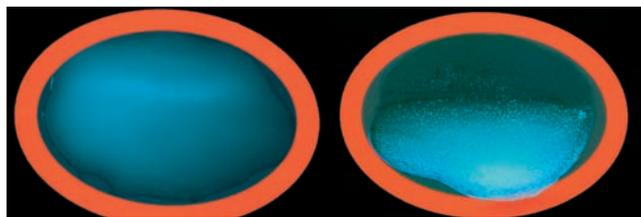


Figure 2: Latex agglutination on slide using blue microspheres (reference: K1-080), left (-), right (+).



Figure.3: Lateral flow tests using Estapor® Dyed Microspheres (reference: K1-030 blue for the control, K1-030 red and green for the analytes) and HiFlow membranes (reference HF135).

Dyed Estapor® kits for evaluation

To enable you to test several types of microspheres of different size, surface or color, we offer kits of 5 dyed microspheres. Our evaluation kits consist of 5 vials of 5 ml (kit 5 x 5), 5 vials of 10 ml (kit 5 x 10) or 5 vials of 50 ml (kit 5 x 50).

Small Dyed Plain Polystyrene Microspheres

Product No.	Diameter (µm)	Polymer
K 005	<0,050	Polystyrene

Plain Polystyrene Microspheres

Product No.	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 040	0,376-0,425	Polystyrene
K 045	0,426-0,475	Polystyrene
K 050	0,476-0,575	Polystyrene
K 060	0,576-0,649	Polystyrene
K 070	0,650-0,740	Polystyrene
K 080	0,750-0,890	Polystyrene
K 100	0,900-1,100	Polystyrene

Large Plain Polystyrene Microspheres

Product No.	Diameter (µm)	Polymer
L 200	1,800-2,200	Polystyrene
L 300	2,500-3,500	Polystyrene

Functionalized Dyed Microspheres

Small Carboxyl-Modified Dyed Microspheres (-COOH)

Product No.	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 No.	Diameter (µm)	Polymer
K1 005	<0,050-0,075	Polystyrene
K1 010	0,130-0,190	Polystyrene
K1 020	0,200-0,260	Polystyrene
K1 030	0,270-0,330	Polystyrene
K1 040	0,340-0,440	Polystyrene
K1 050	0,450-0,530	Polystyrene
K1 070	0,640-0,759	Polystyrene
K1 080	0,760-0,940	Polystyrene
K1 100	0,950-1,100	Polystyrene



Large Carboxyl-Modified Microspheres (-COOH)

Product No.	Diameter (µm)	Polymer
L1 200	2,000-2,600	Polystyrene

Amino-Modified Dyed Microspheres (Alkyl-NH₂)

Product No.	Diameter (µm)	Polymer
K2 020	0,150-0,200	Polystyrene
K2 025	0,210-0,260	Polystyrene
K2-080	0,760-0,940	Polystyrene

Standard Amino-Modified Microspheres (Aryl-NH₂)

Product No.	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 No.	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 No.	Diameter (µm)	Polymer
K5 010	0,076-0,125	Polystyrene
K5 015	0,110-0,160	Polystyrene

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

Product No.	Diameter (µm)	Polymer
K6 020	0,170-0,230	Polystyrene
K6 100	0,950-1,100	Polystyrene

Chloromethyl-Modified Microspheres (-CH₂Cl)

Product No.	Diameter (µm)	Polymer
K9 007	0,075-0,089	Polystyrene
K9 020	0,170-0,230	Polystyrene
K9 080	0,800-0,940	Polystyrene

Sulfate-Modified Microspheres (-SO₄H)

Product No.	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 custom microspheres to fit your very specific needs. 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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All products are not intended for use as in-vitro diagnostics in terms of European Directive 98 /79 / EC.

They are for research purposes only, for investigating in-vitro samples without any medical objective.