Thermo Scientific Fluoro-Max Fluorescent Beads

Green, Red, and Blue Aqueous | Green and Red Dry

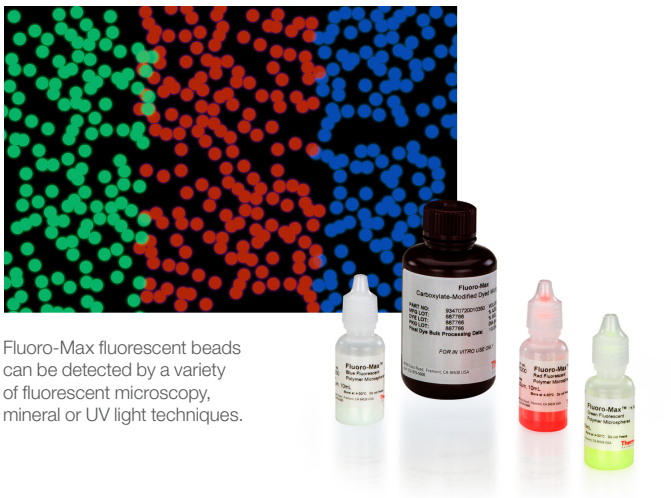
Develop highly sensitive contamination control tests

Thermo Scientific™ Fluoro-Max™ Fluorescent Green, Red, and Blue Aqueous Beads and Green and Red Dry Beads emit bright and intense colors when illuminated by fluorescent or ultra-violet (UV) light. This provides contrast and high visibility needed to stand out against background materials.

As a result, these beads optimize the analytical performance of conventional microscopes by providing improved sensitivity and detectability in qualitative and quantitative contamination control, flow tracing, filter testing, pore size evaluation, and flow dynamic applications.

They are internally dyed using our proprietary process that incorporates dye throughout the polymer matrix to produce exceptional fluorescent colors, minimize photobleaching, and prevent dye leaching in aqueous media.

All Fluoro-Max Fluorescent Beads can be detected using an epifluorescence or confocal microscope, a fluorometer, fluorescence spectrophotometer, flow cytometer, or by mineral or UV light.



Fluoro-Max fluorescent beads can be detected by a variety of fluorescent microscopy, mineral or UV light techniques.

- Excitation/emission peaks of 468/508 nm (Green), 542/612 nm (Red), and 365/447 nm and 412/473 nm (Blue) ensures superior sensitivity
- Highly visible color emission in both visual and fluorescent microscopy techniques
- Internally dyed to ensure optimum adsorption of biomolecules to the particle surface
- Encapsulated dye prevents leaching in aqueous media, resulting in maximum color brilliance and saturation, and enhanced readability of the assay

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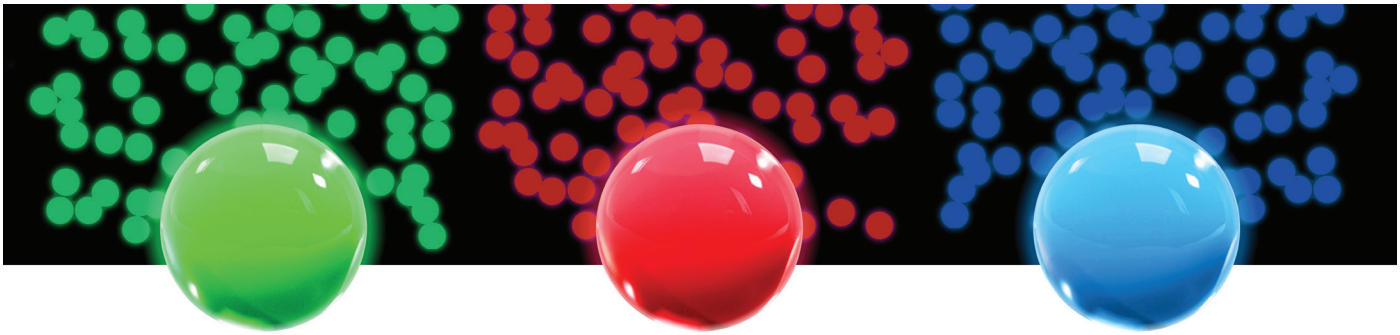

Fluoro-Max Fluorescent Beads: Green, Red, and Blue Aqueous / Green and Red Dry

Specifications	Green, Red, Blue Aqueous	Green & Red Dry
Composition	Polystyrene	Polystyrene divinylbenzene
Dye	Green (468/508 nm), Red (542/612 nm), Blue (365/447, 412/473 nm)	Green (468/508 nm), Red (542/612 nm)
Nominal diameter	~ 0.03 µm - 2 µm	~ 5 µm - 100 µm
% solids	1%	100%
Additives	Trace amount of surfactant	N/A
Index of Refraction	1.59 @ 589 nm (25°C)	1.59 @ 589 nm (25°C)
Density	1.05 g/cm^3	1.05 g/cm^3
Documentation	Safety Data Sheet available upon request.	
Storage and Handling	Unless otherwise stated, refrigerate (2-8°C) aqueous product when not in use, but do not freeze. Store upright and keep bottle tightly sealed. For aqueous products, mix with gentle inversion by hand or vortex mixer. Keep in original bottle and do not expose to light which can deteriorate the product.	

Fluoro-Max Green, Red and Blue (Aqueous)

Nominal Diameter Range*	Bottle Size	Dye Color	Catalog Number Range
~ 25 nm - 900 nm	15 mL	Green	G25 – G900
~ 25 nm - 900 nm	90 mL	Green	G25B – G900B
~1 µm - 10 µm	10 mL	Green	G0100 – G1000
~1 µm - 10 µm	60 mL	Green	G0100B – G1000B
~ 25 nm - 900 nm	15 mL	Red	R25 – R900
~ 25 nm - 900 nm	90 mL	Red	R25B – R900B
~1 µm - 3 µm	10 mL	Red	R0100 – R0300
~1 µm - 3 µm	60 mL	Red	R0100B – R0300B
~ 50 nm - 900 nm	15 mL	Blue	B50 – B900
~ 50 nm - 900 nm	90 mL	Blue	B50B – B900B
~1 µm - 2 µm	10 mL	Blue	B0100 – B0200
~1 µm - 2 µm	60 mL	Blue	B0100B – B0200B

Fluoro-Max Green and Red (Dry)

Nominal Diameter Range*	Bottle Size	Dye Color	Catalog Number Range
~5 µm - 160 µm	1 gram	Green	35-2 – 35-14
~5 µm - 160 µm	5 grams	Green	35-2B – 35-14B
~5 µm - 100 µm	1 gram	Red	36-2 – 36-11
~5 µm - 100 µm	5 grams	Red	36-2B – 36-11B

*The complete list of available products is too extensive to show here, so a Nominal Diameter Range (which includes several different diameters) and its corresponding Catalog Number Range (which includes several different SKUs) is provided as a guide. Contact us or visit thermofisher.com/particletechnology for the complete list.

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