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FluoSpheres™ Carboxylate-Modifi...

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Invitrogen™

FluoSpheres™ Carboxylate-Modified Microspheres

Catalog number: F8809

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Easily perform flow cytometry, microscopy, HTS, HCS, immunoassay, and other laboratory applications using our extensive selection of FluoSpheres Carboxylate-Modified Microspheres. FluoSphere beads can be used in passive adsorption or active, covalent coupling of proteins, nucleic acids, and biomolecules for particle capture applications. FluoSphere



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Product Overview

Figures

Recommendations

Documents

FAC

Catalog Number	F8809 also known as F-8809 ⓘ
Unit Size	10 mL
Diameter (Metric)	0.2 µm
Color	Orange
Excitation/Emission	540/560 nm
Quantity	10 mL
Price (USD)	Price: 444.00 Your Price: Sign In ⓘ
Availability ⓘ	In stock



Full specifications ▾

Quantity

Add to cart

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Catalog Number	F8803 also known as F-8803 ⓘ
Unit Size	10 mL
Diameter (Metric)	0.1 µm
Color	Yellow-Green
Excitation/Emission	505/515 nm



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Availability **In stock**



Full specifications

Quantity

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Catalog Number	F8816
Unit Size	2 mL
Diameter (Metric)	1.0 µm
Color	Crimson
Excitation/Emission	625/645 nm
Quantity	2 mL
Price (USD)	Price: 454.00 Your Price: Sign In
Availability	In stock



Full specifications

Quantity

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Catalog Number	F8823 also known as F-8823
Unit Size	10 mL



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Quantity	10 mL
Price (USD)	Price: 471.00 Your Price: Sign In ⓘ
Availability ⓘ	In stock



Full specifications ▾

Quantity

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Catalog Number	F8801
Unit Size	10 mL
Diameter (Metric)	0.1 μm
Color	Red
Excitation/Emission	580/605 nm
Quantity	10 mL
Price (USD)	Price: 461.00 Your Price: Sign In ⓘ
Availability ⓘ	In stock



Full specifications ▾

Quantity

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Diameter (Metric) 0.2 µm

Color Yellow-Green

Excitation/Emission 505/515 nm

Quantity 10 mL

Price (USD) Price: 463.00
Your Price: [Sign In](#) ⓘ

Availability ⓘ In stock



Full specifications ▾

Quantity

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Catalog Number **F8807**
also known as F-8807 ⓘ

Unit Size 2 mL

Diameter (Metric) 0.2 µm

Color Dark Red

Excitation/Emission 660/680 nm

Quantity 2 mL

Price (USD) Price: 457.00
Your Price: [Sign In](#) ⓘ

Availability ⓘ In stock



Full specifications ▾

Quantity

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Unit Size	1 mL/each
Diameter (Metric)	0.04 µm
Color	Yellow-Green
Excitation/Emission	505/515, 540/560, 580/605, 660/680 nm
Quantity	1 mL (each)
Price (USD)	Price: 696.00 Your Price: Sign In ⓘ
Availability ⓘ	In stock



Full specifications ▾

Quantity

Add to cart

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Catalog Number	F20881 also known as F-20881 ⓘ
Unit Size	2 mL
Diameter (Metric)	0.2 µm
Color	Orange
Excitation/Emission	365/610 nm
Quantity	2 mL
Price (USD)	Price: 447.00 Your Price: Sign In ⓘ
Availability ⓘ	In stock



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Catalog Number

F8783

also known as F-8783 ⓘ

Unit Size

2 mL

Diameter (Metric)

0.02 μm

Color

Dark Red

Excitation/Emission

660/680 nm

Quantity

2 mL

Price (USD)

Price: 457.00

Your Price: [Sign In](#) ⓘ

Availability ⓘ

In stock

✓

Full specifications ▾

Quantity

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Visualize the brightest fluorescence for laboratory applications including fluorescence microscopy, flow cytometry, HTS, HCS, and cell tracing with our Carboxylate-Modified FluoSphere Microspheres, which are manufactured from polystyrene microspheres and loaded with different proprietary dyes. Using specialized staining methods enables all of the fluorescent dye molecules to be contained inside each polystyrene microsphere instead of on the bead's surface. This protective environment within the bead shields the dye from detrimental environmental effects, such as photobleaching. Our carboxylate-modified microspheres are coated with a hydrophilic polymer containing multiple carboxylic acids for covalent attachment of ligands. A range of particle sizes is available for different research uses and experiments.



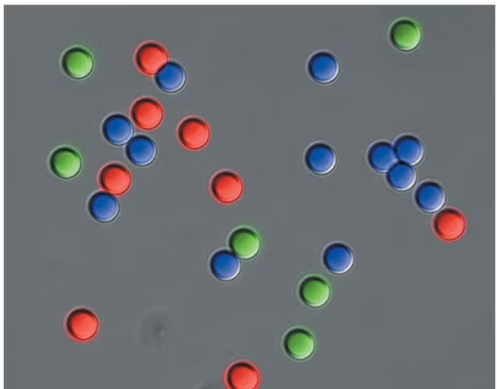
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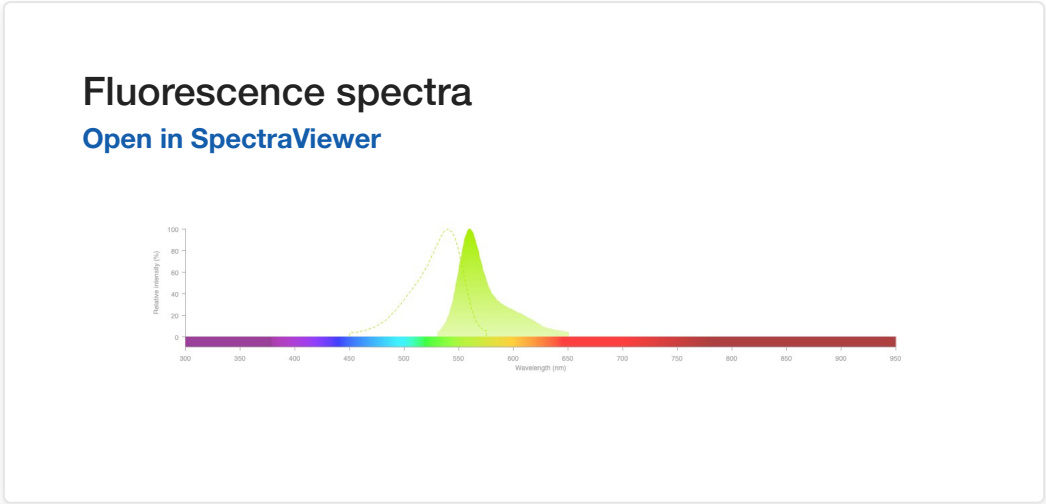
Contents & Storage

Store in refrigerator (2°C to 8°C) and protect from light.

Figures



FluoSpheres® fluorescent microspheres.



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TetraSpeck™
Microspheres, 0.1 µm,...

Catalog number: T7279

374.00 / 0.5 mL

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FluoSphere:
Polystyrene

Catalog num

454.00 / 5

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File icon 2674014	Certificate of Analysis	Dec 01, 2023	F8797
File icon 2615883	Certificate of Analysis	Nov 22, 2023	F8789



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Safety Data Sheets

[SDS](#)

Product Information

Manuals —

-  [Working with FluoSpheres Fluorescent Microspheres](#)
-  [User Guide: FluoSpheres Fluorescent Microspheres](#)
-  [FluoSpheres Europium Luminescent Microspheres](#)

Frequently asked questions (FAQs)

I sonicated my carboxylate-modified latex microspheres as recommended in the protocol, and I saw foaming in the solution. Should I be concerned?	Answer +
I have some FluoSpheres polystyrene microspheres, with 20 nm diameter. They are aggregating a lot. What can I do about it?	Answer +
How many dye molecules are there in a single fluorescent microsphere?	Answer +
Are the FluoSpheres microspheres surfactant-free?	Answer +



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Citations & References

Abstract

[Isolation of serotype-specific antibodies against dengue virus non-structural protein 1 using phage display and application in a multiplexed serotyping assay.](#) [↗](#)

Authors: Lebani K, Jones ML, Watterson D, Ranzoni A, Traves RJ, Young PR, Mahler SM

Journal: PLoS One

PubMed ID: 28683141

The multidimensional nature of dengue virus (DENV) infections, which can be caused by four distinct serotypes of the virus, complicates the sensitivity of assays designed for the diagnosis of infection. Different viral markers can be optimally detected at different stages of infection. Of particular clinical importance is the early identification ... [More](#)

[Fluorescent microangiography \(FMA\): an improved tool to visualize the pulmonary microvasculature.](#) [↗](#)

Authors: Dutly AE, Kugathasan L, Trogadis JE, Keshavjee SH, Stewart DJ, Courtman DW

Journal: Lab Invest

PubMed ID: 16518405

Visualization of the complex lung microvasculature and resolution of its three-dimensional architecture remains a difficult experimental challenge. We present a novel fluorescent microscopy technique to visualize both the normal and diseased pulmonary microvasculature. Physiologically relevant pulmonary perfusion conditions were applied using a low-viscosity perfusate infused under



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2 total citations

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