

Product Information

Product Name	Cat. No.	Package Size
Colored Latex Beads	SG9111	15mL 50mL

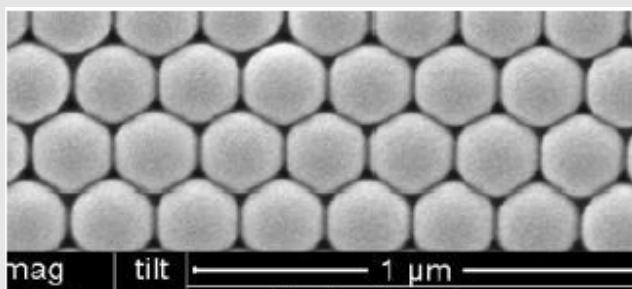
Colored Latex Beads

Product No.	SG9111
Constituent	Polystyrene or Polystyrene copolymer
Color	Red, Blue, Yellow
Surface Functional Group	Carboxylate-modified, aldehyde-modified, epoxy-modified, chloromethyl-modified
Density of Surface Functional Group	The amount of surface functional groups varies from 60 μ mol/g~70 μ mol/g. Since surface functional group amount is proportional to specific surface area, hydrophilic hydroxyl groups are introduced on surface for stability. Density of surface functional groups can be customized upon requirement between 40 μ mol/g to 120 μ mol/g.
Monodispersity	Percentage of C.V ranges between 3%-8%.
Grain Diameter	120nm, 160nm, 200nm, 400nm, 800nm Series. Custom preparation of grain size is available between 20nm-8000nm.
Bead Density	1.06g/cm ³
Refractive Index	1.59 at 589nm, 25 $^{\circ}$ C
Solid Content	7%
Package	15mL, 50mL
Buffer Additive	Limited preservatives and sodium azide
Stock Condition	Store at room temperature or 2-8 $^{\circ}$ C in seal and protect from freezing
Shelf life	\geq 24 months

Introduction

Colored latex beads 20 nm-8000 nm diameter polystyrene or polystyrene copolymer microspheres. Grain size of latex bead can be changed according to customer's requirement. C.V (coefficient of variance) is constantly maintained between 3% and 8% to keep stable monodispersity. Batch yield is up to 2000 mL with 7% solid content. Custom preparation is available according to customer's need, which guarantees product stability between batches.

This type of beads contains pigment, of which mass ratio is up to 30%, greater than congeneric products of other companies. Colored latex beads cause significant contrast with the background due to their strong colors. Therefore, colored latex beads are applicable in advection immune diagnosis as well as marker of various trace substance.



Picture of Monodispersity and Grain Size under Electron Microscope