

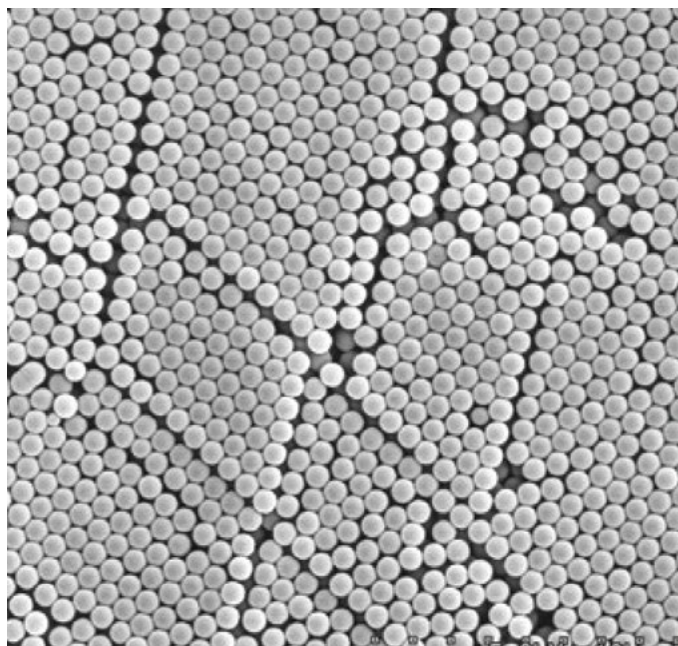


## LATEX PARTICLES FOR LIFE SCIENCE APPLICATIONS

Immutex™ are uniform-sized polystyrene latex (PSL) particles for agglutination tests in life science applications. A variety of particle sizes and surface chemistries are available to meet your specific requirements.

### Key Properties

- Polystyrene latex beads
- Various sizes: 50 nm to 500 nm
- Uniform size
- Good lot-to-lot reproducibility
- Immutex-Plain / Immutex-Carboxyl
- Suitable latex surface design for your purpose
  - Adjustment of Parking area (PA)
  - Control COOH density
  - Control of hydrophilic/hydrophobic surface properties during ligand binding to reduce non-specific binding and assay aggregation
- Ready-to-use, no further purification needed



### Specifications

Diameter:	50 nm ~ 500 nm
Surface Charge Density:	~0.4 nmol/g (~150 Å <sup>2</sup> /COOH)
Solid Content:	5% or 10%
pH:	7~9
Solution:	0.09% sodium azide in water

### Good Lot-to-Lot Reproducibility



### Surface Chemistry and Ligand Coupling

Immutex™	Application	Ligand Coupling Method	Carboxyl Group Density (Parking area, Å <sup>2</sup> /COOH)
Immutex Plain™	Latex agglutination	Physical adsorption	
Immutex Carboxyl™	Latex agglutination	Covalent coupling	1–150

Product Lineup

Product Code	Diameter (μm)	COOH (mmol/g)	Parking Area (Å <sup>2</sup> /COOH)	Solid Content (wt%)
<b>Immutex-Carboxyl™</b>				
P0001	0.07	0.21	66	5
P0014	0.09	0.30	37	5
P0011	0.09	0.16	66	5
P0115	0.11	0.14	65	5
P0117	0.14	0.07	104	5
P0112	0.15	0.10	63	5
P0113	0.19	0.07	71	10
P0219	0.20	0.09	56	10
P0322	0.28	0.06	62	10
P0307	0.36	0.05	59	10
<b>Immutex-plain™</b>				
P2015	0.09	-	-	5
P2116	0.12	-	-	10
P2117	0.13	-	-	5
P2118	0.17	-	-	10
P2245	0.19	-	-	10
P2246	0.24	-	-	10

1. Dynamic Light Scattering Method

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