

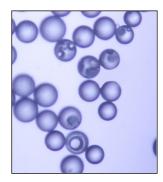
Glass Beads

Catalog Numbers: 15927, 05483, 18901, 18902, 18903, 18905, 18906, 17596, 23584, 23585

DESCRIPTION

Our solid soda-lime glass beads have been sieved to the noted diameter ranges. They are light green in color and are provided in powder form.

Amine- and glycidyl-modified versions of the 30-50µm glass beads are available for coupling peptides, dyes and other compounds. Following activation via periodate oxidation, glycidyl-modified beads react with amine-terminated molecules. Glutaraldehye-mediated and other amine-reactive chemistries are compatible with amine-modified glass beads. Glass beads coated with small biomolecules or dyes should be stored in solvent or in dry form.



Cat. #18901: 30-50µm Glass Beads

CHARACTERISTICS

Chemical Composition (by weight)

Physical Properties 66-75% **Specific Gravity** Silica (SiO₂) 2.48-2.52 g/cm, Aluminum Oxide (Al,O,) 0-5% **Softening Temperature** 650°C 6-15% Calcium Oxide (CaO) **Coefficient of Thermal Expansion** 90 x 10-7/°C (30-300°C) Magnesium Oxide (MgO) 1-5% Strength 29 kg/mm₂ (39,875 psi) **Vicker Hardness** Sodium Oxide (Na,O) 10-20% 550 kg/mm₂ (756,250 psi) **Refractive Index** Iron Oxide (Fe₂O₂) <0.8% 1.51 (nD)

OTHER SPECIFICATIONS

≥80% glass spheres in size range, Size Range

≥85% true spheres

Color Light green

Surface Non-functionalized, amine-modified or

glycidyl-modified

Form Dry powder

RELATED TECHNICAL DATA SHEETS

1. TDS 635 - Uniform Silica Microspheres

2. TDS 238D - Covalent Coupling of Proteins to Amino and Blue Dyed Polystyrene Microparticles by the "Glutaraldehyde" Method

STORAGE

Store at room temperature.

These products are for research use only and are not intended for use in humans or for in vitro diagnostic use.

ORDERING INFORMATION

Cat.#	Description	Sizes
18901	Glass Beads, 30-50μm	100g
15927	Glass Beads, 105-150μm	100g
05483	Glass Beads, 150-210μm	250g
18902	Glass Beads, 210-250µm	100g
18903	Glass Beads, 250-300μm	100g
18905	Glass Beads, 355-420μm	100g
18906	Glass Beads, 420-500μm	100g
17596	Glass Beads, 500-850μm	250g
23584	Glass Beads, Amine, 30-50μm	10g
23585	Glass Beads, Glycidyl, 30-50μm	10g

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