

HiSur Amine Beads

DESCRIPTION

Ocean NanoTech's HiSur Amine (1 μm) are hydrophilic magnetic beads with amine groups. These surface groups allow covalent bond formation to proteins/peptides via carboxyl or thiol groups. Oligonucleotides, antibodies, or other ligands with these groups can be easily coupled to the beads for use in many downstream applications, including protein purification, DNA sample preparation and clean-up, proteomics and immunoassays, etc. Activation through EDC or Sulfo-SMCC is required. Attribute to their very large surface area (about three times larger than that of the MonoMag Amine 1 μm , MA1000) and unique surface coating, HiSur Amine Beads exhibit superior binding capacity and low non-specific binding.

FEATURES

- **Superior binding capacity.**
- **High surface area:** Unique cauliflower-like surface provides more binding sites available.
- **Low non-specific binding:** stable, pre-blocked beads provide clean purification products without interference from the non-specific binding of complex samples.
- **Fast magnetic separation.**

SPECIFICATION

- **Concentration:** 10mg/mL
- **Storage buffer:** DI water, 0.05% NaN_3 , 0.01% tween 20
- **Size:** 1 μm (nominal)

STORAGE & USAGE

Store at 2-8°C. Freezing of particles may result in irreversible aggregation and loss of binding activity.

Ensure the suspension is well dispersed prior to use, bath sonication is strongly recommended, as particles are expected to settle during storage.

AVAILABLE PRODUCTS

Catalog	Product Description	Unit size
HA1000-02	HiSur Amine Beads, 1 μm	2 mL
HA1000-10	HiSur Amine Beads, 1 μm	10 mL
HA1000-100	HiSur Amine Beads, 1 μm	100 mL

Difference between MonoMag 1 μm and HiSur 1 μm

- MonoMag has a layer of coating to isolate the iron oxide from the outer environment. While HiSur does not.
- MonoMag has narrower size distribution than HiSur.
- The surface area of HiSur is about three times larger than that of the same weight of MonoMag. Therefore, HiSur has higher binding capacity than MonoMag.

