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# Hydroxyl Magnetic Beads (200 nm, 10 mg/mL)

## 1 Components

| Component | HY-K0223-1 mL | HY-K0223-5 mL | HY-K0223-25 mL |
|---|---|---|---|
| Hydroxyl Magnetic Beads (200 nm, 10 mg/mL) | 1 mL | 5 mL | 25 mL |

## 2 Introduction

MCE Hydroxyl Magnetic beads (200 nm, 10 mg/mL) are characterized by superparamagnetism, fast magnetic response, abundant hydroxyl functional groups, monodispersity, and submicron scale particle size, which are able to specifically bind to nucleic acids in solution through hydrophobic, hydrogen-bonding, and electrostatic interactions under high salt and low pH conditions, and can rapidly isolate nucleic acids from biological samples, which is conducive to the automation and high throughput extraction of nucleic acids.

## 3 Characteristics

| | |
|---|---|
| Magnetic nucleus | $Fe_3O_4$ |
| Shell | SiO |
| Magnetic type | Superparamagnetism |
| Saturation magnetization | ~ 60 emu/g |
| Specific surface area | ~ 50 $m^2/g$ |
| Mean Diameter | 200 nm (monodispersity; determined by Malvern Nano) |
| Bead Concentration | 10 mg/mL |

## 5 Storage

4°C, 2 years.
Do not freeze.

## 6 Precautions

1. The Magnetic beads are stored in dd$H_2O$.
2. For magnetic beads, do not centrifuge, dry, freeze or exposure to a magnetic field for a long time.
3. This product is for R&D use only, not for drug, household, or other uses.
4. For your safety and health, please wear a lab coat and disposable gloves to operate.