

Blockmaster™ CE510 [Code No. : BLMCE510]

Blockmaster™ CE210 [Code No. : BLMCE210]

PRODUCT DESCRIPTION

Blockmaster™ CE Series is a synthetic, protein-free and serum free blocking reagent that reduces non-specific bindings of proteins and enhances ligand activities to realize high signal-to-noise (S/N) ratio.

Blockmaster™ CE Series consists of a JSR proprietary aqueous polymer with an amine group at one end for chemical coupling to solid surface.

Blockmaster™ CE Series can be used either as a substitute for BSA or along with BSA.

Features

- Chemically synthesized aqueous polymer with amine (-NH₂) group at one end
- Animal-free source, virus- and prion-free
- Low non-specific binding (NSB) of proteins
- Significantly enhances S/N ratio
- High lot-to-lot consistency
- Uninfluential to avidin-biotin reactions

Example Applications

Immunoassay, ligand coupling, signal enhancement

SPECIFICATIONS

Molecular weight	CE510: 5,000 (approx.) / CE210: 2,000 (approx.)
Package volume	100 mL
Solid content in solution	2 wt%
Solvent	Water containing 0.01% ProClin950 as a preservative
Appearance	Colorless or slightly yellow, transparent
Expiration date	Printed on the label

STORAGE

Blockmaster™ CE Series is stable when stored at 2-8 °C. Do not freeze the vial.

DISPOSAL

Observe all federal, state and local laws when considering most appropriate disposal method.

IMPORTANT NOTICE

This product is for research use only and not intended for therapeutic or *in vivo* diagnostic use.

RECOMMENDED PROTOCOL Reagent and equipment requirement

- Binding Buffer :
0.1M MES buffer (pH5.0)
MES : 2-(N-morpholino)ethanesulfonic acid
- Coupling Reagent-1:
10mg/mL EDC in ice-cooled Binding buffer
Prepared just before the coupling reaction
- Blocking Reagent
Blockmaster CE510
- Washing Buffer : TBS-T
(25mL Tris-HCl + 150mM NaCl
+ 0.05% Tween20 ,pH7.2)
- Ligand Solution : Anti-AFP IgG
- Magnetic Separator
- Vortex tube mixer
- Tube rotator

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Magnetic Beads* 10mg      *Ex) Magnosphere™/Carboxyl beads
↓
Binding Buffer 0.5mL; Pre Wash x1
(Suspend the beads by vortexing. Then, remove the supernatant by magnetic)
↓ ←0.9mL Binding Buffer
Vortexing
↓ ←100 μ L Coupling reagent-1
Vortexing
↓
Rotating the tube : room temperature / 30min
↓ ←100 μ L IgG etc.
Vortexing
↓
Rotating the tube : room temperature / 1-3hours
↓ ←500 μ L Blockmaster CE510
Rotating the tube : room temperature / 1-3hours
↓
Washing Buffer 0.5mL; Wash x4
↓
Suspend the beads with a desired buffer
and store 2-8°C until needed
  
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REFERENCE

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