MEDICAL & BIOLOGICAL LABORATORIES CO., LTD.

Rev. No.1

Blockmaster™ PA1080 [Code No. : J-PA1080]

PRODUCT DESCRIPTION

Blockmaster™ PA Series is a synthetic, virus and animal protein free blocking reagent that reduces protein and cell adsorption to solid substrates.
Blockmaster™ PA Series consists of our proprietary aqueous polymer with a hydrophobic unit for physical adsorption to solid surface.
Blockmaster™ PA Series can be used either as a substitute for BSA or along with BSA.

Features

- Virus and animal protein free
- Quality can be controlled (Specified molecular weight range)
- Water soluble
- Adsorbs physically to solid substrates e.g. polystyrene, glass, polydimethylsiloxane, etc.
- Prevents protein and cell adsorption to solid substrates

Example Applications

Blocking reagent for microfluidics, storage vessels for proteins, cell culture plates, immunoassay

SPECIFICATIONS

Package volume	100 mL
Solid content in solution	1 wt%
Solvent	Water containing 0.1% ProClin950 as a preservative
Appearance	Colorless or slightly yellow, transparent
Expiration date	Printed on the label

STORAGE

Blockmaster™ PA Series is stable when stored at 2-8 ℃. 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 diagnostic use.

RECOMMENDED PROTOCOL

Protocol to prevent protein adsorption to substrates

1. Add 200 µL of ***Blockmaster™ PA1080*** into the wells of 96 wells plate.
2. Incubate for 30min at room temperature.
3. Remove ***Blockmaster™ PA1080*** and wash the wells with 350 µL water 3 times.
4. Add 100 µL protein solution into the wells.
   Blockmaster™ PA 1080 coating prevents protein adsorption to the wells.

Reagent and equipment requirement

- Substrate ; 96 wells polystyrene microplate, 96wells glass microplate
- Blocking reagent ; *Blockmaster™ PA1080*
- Protein sample ; Anti-mouse IgG conjugated HRP at 200 ng/mL concentration in PBS

Protocol to prevent cell adsorption to substrates

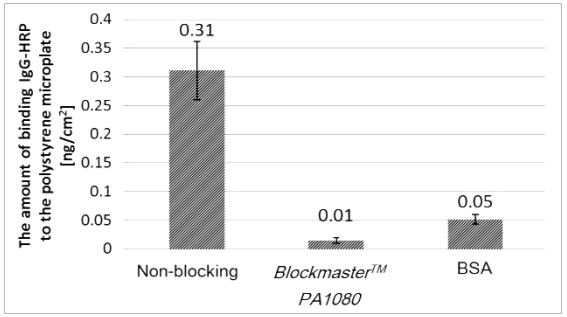
1. Add 200 µL ***Blockmaster™ PA1080*** into the 96 wells plate.
2. Incubate for 30 min at room temperature.
3. Remove ***Blockmaster™ PA1080*** and wash the wells with 200 µL PBS 3 times.
4. Add 100 µL of cell suspension into the wells.
   Blockmaster™ PA 1080 coating prevents cell adsorption to the wells.

Reagent and equipment requirement

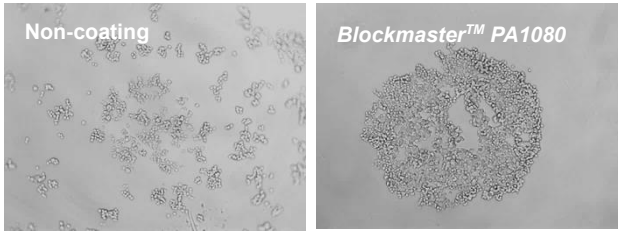
- Substrate ; 96 wells polystyrene microplate, 96wells glass microplate
- Blocking reagent ; *Blockmaster™ PA1080*
- Cell sample ; HT29 cell at 2.5×10^4 cells/mL concentration in PBS

REFERANCE

Protein adsorption to the non-treated polystyrene microplate after incubation for 1 hr



Cell adsorption to the non-treated polystyrene microplate after incubation for 15 hr



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