MOLECULAR DEPOT

PRODUCT DATA SHEET

ELISA Coating Buffer (5X)

Catalog number: B2010008

Lot number: 0120B0008

Expiration date: 06/30/2023

Content: ELISA Coating Buffer 5X concentrate (100 mL)

Storage: 2-8°C

Keywords: Elisa coating protocol, coating agent, coating Elisa plates, coating buffer Elisa.

Product Description:
Concentrated solution (5X) of ELISA Coating Buffer that must be diluted with di-water to a 1X working solution before use. This buffer has been extensively validated for use in ELISA applications by coating various proteins, protein-conjugates and antibodies.

Reconstitution of ELISA Coating Buffer 5X

- The provided ELISA Coating Buffer 5X solution needs to be reconstituted by adding di-water:
- Mix the provided 100 mL of the ELISA Coating Buffer 5X concentrate with 400 mL of di-water to make 500 mL of ELISA Coating Buffer 1X. Store at 2-8°C.
- Diluted ELISA Coating Buffer is stable at 2-8°C for 1 month.

ELISA Coating Protocol
The provided ELISA Coating Buffer 5X can be used in the coating of various proteins and antibodies. A typical ELISA coating protocol is shown below:

1- Prepare the needed volume of ELISA Coating Buffer 1X by diluting the provided 5X concentrate using di-water.
2- Spike the protein/antibody to be coated inti the ELISA Coating Buffer 1X to the required concentration. Required concentration varies by application but is typically around 1 μg/mL (it can be, though, as low as 0.05 μg/mL and as high a 10 μg/mL). Mix until homogenous.
3- Add 100 μL of the coating solution per microplate well either manually (using a multi-channel pipette) or using an automated liquid-handler.
4- Cover microplate with a sealing film (Catalog #CS20003).
5- Incubate at room temperature for 3 hours or at 2-8 °C overnight.
6- Remove the ELISA Coating Buffer (by sharply inverting the microplate into a container or using an automated liquid-handler).
7- Dispense 200 μL of ELISA Wash Buffer (Catalog #B2010009) into each microplate well. Remove ELISA Wash Buffer immediately. Remove any residual droplets by blotting plate on a piece of dry absorbent paper.

WARNING: This product if for **Research Use Only (RUO)**. This product is not for administration to humans or animals. This product is not for human or veterinary diagnostic or therapeutic use.

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8- Dispense 250 µL of ELISA Blocking Buffer (Catalog #B2010010) to each microplate well. Cover microplate with a sealing film (Catalog #CS20003).
9- Incubate at room temperature for 2-3 hours.
10- Remove ELISA Blocking Buffer and any residual droplets by blotting plate on paper. Blocked microplates can be used directly for ELISA testing. If coated microplates are to be stored for the long term, they need to be dried and kept in sealed-bags (see steps 11-12).
11- Dry unsealed microplates in a 37°C incubator for 24-48 hours.
12- Place dry microplate in a foil sealable foil bag (Catalog #CS20001), add two Water Absorbent Packs (Catalog #CS20002). Seal the bag using a Teflon Heat Sealer of similar device.
13- Dried and sealed microplates are stable in original foil bags for at least 12 months at 2-8 °C.

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