



### Specification Sheet

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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Product:                | <b>Drying Buffer/Stabilizer, biotin-free Casein based, ready-to-use</b>                                                                  |
| Code:                   | <b>#DBS-C</b>                                                                                                                            |
| Protein concentration : | 10 mg/ml                                                                                                                                 |
| Buffer base:            | 0,15M PBS pH 7,3                                                                                                                         |
| Preservative:           | BND, 550 ppm                                                                                                                             |
| Lot:                    | 441967                                                                                                                                   |
| Storage:                | +2°C ~ +8°C. Warm up to room temperature prior to use                                                                                    |
| Expiration date:        | 12/2026                                                                                                                                  |
| Recommended use:        | ready-to-use reagent for preparing dried non porous and porous immunosorbents that shall be stable real-time at room/ambient temperature |

In ELISA test kits production DBS-C is applicable in two different ways – with and without wash after coating immunoplate with a capture antibody/antigen.

Protocol 1: exhaustively aspirate coating buffer from immunoplate wells at the end of the antibody/antigen adsorption process and immediately fill them with DBS-C. If immunoplate was coated with e.g. (typically) 100 µl antibody/antigen solution per well, applying DBS-C in the larger volume – 150-200 µl will result in the better NSB blocking. Incubate at least one hour at room/ambient temperature to allow for effective casein adsorption. Longer – up to 24 hours – incubation will aid to the better blocking. Do not wash DBS-C out of the plate, aspirate it as completely as possible immediately before drying. Store dried immunosorbent in water-impenetrable pouch with proven desiccant.

Protocol 2: wash immunoplate with appropriate wash buffer following antibody/antigen adsorption. Aspirate rests of the wash buffer as completely as possible and then apply DBS-C. Further steps are identical to Protocol 1.

On High Binding Capacity plates (capable of binding 400-500 ng IgG/cm<sup>2</sup>) coated with IgG/F(ab')<sub>2</sub> and/or peptide antigens in concentration about 1 µg/ml both protocols may work equally well, i.e. Protocol 2 with wash will have no advantage over Protocol 1 without wash. Rationale behind is that 1 µg/ml at 100 µl per well translates into 100 ng per well – this amount of the applied material will most likely be almost completely adsorbed during 18-24-hour coating procedure.