

Catalog # Product Description, Storage and Use

- DY990** ♦ **Clear Microplates** (Part # 991427) - A 25 pack of clear high-binding, flat-bottom polystyrene microplates (360 μ L/well). Each microplate consists of twelve removable strips of 8 wells and a frame (Costar, Catalog # 2592).
- DY991** ♦ **Black Microplates** (Part # 991426) - A 25 pack of black high-binding, flat-bottom polystyrene microplates (360 μ L/well) for use in chemiluminescent assays. Each microplate consists of twelve removable strips of 8 wells and a frame (Costar, Catalog # 3924).
- DY992** ♦ **ELISA Plate Sealers** (Part # 991423) - 100 adhesive strips.
- DY993** ♦ **Glo Substrate Reagent Pack** - 5 vials of Glo Reagent A (stabilized enhanced luminol, part # 895868, 4 mL/vial) and 5 vials of Glo Reagent B (stabilized hydrogen peroxide, part # 895869, 8 mL/vial).
- ♦ Store unopened at 2 - 8° C. Stable for up to 30 days after opening when stored at 2 - 8° C. Use within 15 minutes to 4 hours of mixing.
- ♦ This reagent may be substituted for H₂O₂/tetramethylbenzidine as a substrate for horseradish peroxidase in ELISAs. Use black microplates for chemiluminescent assays (Catalog # DY991). Mix 1 part Glo Reagent A to 2 parts Glo Reagent B in a plastic container, cap, and protect from light. Add 100 μ L of the mixture to each well and incubate at room temperature while protecting from light. Read the microplate on a luminometer within 5 - 20 minutes.
- DY994** ♦ **Stop Solution** (Part # 895032) - 15 vials (6 mL/vial) of 2N sulfuric acid.
- ♦ Store unopened at 2 - 8° C. Stable for up to 30 days after opening when stored at 2 - 8° C.
- ♦ Add 50 - 100 μ L/well to stop the action of horseradish peroxidase on the substrate, tetramethylbenzidine. If the color in the wells is green or the color change does not appear to be uniform, gently tap the plate to ensure thorough mixing.
- ♦ **Caution:** *This is an acidic solution. Wear eye, hand, face, and clothing protection when using this material.*
- DY995** ♦ **Reagent Diluent Concentrate 2** (Part # 841380) - 5 vials (21 mL/vial) of a 10% BSA solution.
- ♦ Store unopened at 2 - 8° C. Stable for up to 30 days after opening when stored at 2 - 8° C. Make all solutions fresh or filter sterilize and store for up to 1 week at 2 - 8° C.
- ♦ For assays that require 1% BSA in PBS, dilute 1:10 in deionized water before use.
- ♦ For assays that require 0.1% BSA in TBS, dilute 1:100 with Tris buffer + 0.05% Tween[®] 20, pH 7.2 - 7.4.
- ♦ The Reagent Diluent will require additional components for some DuoSets. Please refer to the product-specific package insert for more information.
- DY997** ♦ **Reagent Diluent Concentrate 1** (Part # 840149) - 1 vial (21 mL) of a buffered protein base.
- ♦ Store unopened at 2 - 8° C. Stable for up to 30 days after opening when stored at 2 - 8° C.
- ♦ Dilute 1.4 mL to a final volume of 100 mL with PBS + 0.05% Tween 20, pH 7.2 - 7.4.
- ♦ Use the diluted reagent within 8 hours.
- DY998** ♦ **Streptavidin-HRP** (Part # 890803) - 5 vials (1 mL/vial) of streptavidin conjugated to horseradish peroxidase.
- ♦ Store unopened at 2 - 8° C. Stable for up to 6 months after opening when stored at 2 - 8° C. **Do Not Freeze.**
- ♦ For use in ELISAs, dilute to the working concentration specified on the vial label using 1% BSA/PBS or Reagent Diluent Concentrate 2 (Catalog # DY995) diluted 1:10 in deionized water.
- ♦ For use in Western blots, the suggested dilution is 1:200 - 1:2000 in an appropriate diluent.
- ♦ Use the diluted reagent within 60 minutes.
- DY999** ♦ **Substrate Reagent Pack** - 8 vials of Color Reagent A (stabilized hydrogen peroxide, part # 895000) and 8 vials of Color Reagent B (stabilized tetramethylbenzidine, part # 895001); 12.5 mL/vial.
- ♦ Store unopened at 2 - 8° C. Stable for up to 30 days after opening when stored at 2 - 8° C.
- ♦ Warm to room temperature before use. Color Reagent A and Color Reagent B should be mixed together in equal volumes within 15 minutes of use. Protect from light. Add 100 μ L of the mixture to each well and incubate at room temperature for 20 minutes while protecting from light. Add Stop Solution (Catalog # DY994) and read the microplate.
- WA126** ♦ **Wash Buffer Concentrate** (Part # 895126) - 5 vials (100 mL/vial) of 25X concentrated solution of buffered surfactant with preservatives.
- ♦ Store unopened at 2 - 8° C. Stable for up to 30 days after opening when stored at 2 - 8° C. If crystals have formed in the concentrate, warm to room temperature and mix gently until the crystals have gone into solution.
- ♦ Dilute 20 mL of Wash Buffer Concentrate to a final volume of 500 mL in deionized water.
- ♦ Diluted Wash Buffer may be used for up to 30 days when stored at 2 - 8° C.

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DuoSet[®] IC Ancillary Products

Catalog # Product Description, Storage and Use

- DYC001**
- ◆ **Sample Diluent Concentrate 1 (5X)** (Part # 895562) - 5 vials (21 mL/vial) of a 5-fold concentrated solution containing 5X PBS, 5 mM EDTA, and 2.5% Triton[®] X-100.
 - ◆ Store unopened at 2 - 8° C. Stable for up to 30 days after opening when stored at 2 - 8° C. Make all solutions fresh or filter sterilize and store for up to 1 week at 2 - 8° C. Do not use beyond the expiration date.
 - ◆ Sample Diluent Concentrate 1 (5X) is the base buffer for the following IC Diluents and Lysis Buffers. Refer to Table 1 for detailed preparation information.

Table 1

Diluent Name	Sample Diluent Concentrate 1 (5X) Required	Urea Required	0.5 M NaF Required	1 M NaCl Required	Protease & Phosphatase Inhibitors Recommended*	Adjust with DI H ₂ O to Final Volume
IC Diluent #3	10 mL	3.003 g	0.5 mL	NA	No	50 mL
IC Diluent #4	10 mL	NA	NA	NA	No	50 mL
IC Diluent #7	10 mL	18.02 g	0.5 mL	NA	No	50 mL
IC Diluent #8	10 mL	NA	0.5 mL	NA	No	50 mL
IC Diluent #9	10 mL	NA	NA	25 mL	No	50 mL
Lysis Buffer #4	2 mL	NA	NA	5 mL	Yes	10 mL
Lysis Buffer #6	2 mL	3.604 g	0.1 mL	NA	Yes	10 mL
Lysis Buffer #12	2 mL	NA	NA	NA	Yes	10 mL
Lysis Buffer #13	2 mL	NA	0.2 mL	1.5 mL	Yes	10 mL

*Refer to the specific DuoSet IC kit insert for details.

- DYC002**
- ◆ **Sample Diluent Concentrate 2 (2X)** (Part # 895891) - 1 bottle (250 mL/bottle) of a 2-fold concentrated solution containing 2% NP-40 Alternative, 40 mM Tris, 274 mM NaCl, 20% glycerol, 2 mM EDTA, and 2 mM activated sodium orthovanadate.
 - ◆ Store unopened at 2 - 8° C. Stable for up to 30 days after opening when stored at 2 - 8° C. Make all solutions fresh or filter sterilize and store for up to 1 week at 2 - 8° C. Do not use beyond the expiration date.
 - ◆ Sample Diluent Concentrate 2 (2X) may be used as the base buffer for the following IC Diluent and Lysis Buffer. Refer to Table 2 for detailed preparation information.

Table 2

Diluent Name	Sample Diluent Concentrate 2 (2X) Required	25 µg/mL Leupeptin Required	Aprotinin Required	Protease Inhibitors Recommended*	Adjust with DI H ₂ O to Final Volume
IC Diluent #12	25 mL	NA	NA	No	50 mL
Lysis Buffer #9	5 mL	0.004 mL	0.1 mg	Yes	10 mL

*Refer to the specific DuoSet IC kit insert for details.

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