



## Dressed Gold® Protein G Conjugate

Cat. #: DPRG-B001 - 1 mL at 15 O.D./mL

Cat. #: DPRG-B009 - 9 mL at 15 O.D./mL

Cat. #: DPRGL-B001 - 1 mL at 50 O.D./mL

Cat. #: DPRGL-B009 - 9 mL at 50 O.D./mL

Bulk volumes and custom concentrations available

### Description

Protein G is an immunoglobulin-binding protein expressed in Group C and G Streptococcal bacteria that binds with high affinity to the Fc region of IgG from a variety of species, but does not bind to IgA, IgD, IgE, IgM, or BSA. It is passively conjugated to 40 nm Naked Gold® sol and is suitable for lateral flow and immunoblotting applications.

*Conjugated protein:* Recombinant Protein G

*Concentration:* The protein is typically conjugated at 2 µg/O.D.

*Storage Buffer:* 1% BSA, 0.1% Proclin® in aqueous solution.

### Form/Storage

Provided in liquid form. Store undiluted at 2-8°C. DO NOT FREEZE. Freezing will cause precipitation and compromise product stability. Expiration date is stated on product label.

### Suggested Use and Working Dilutions

Prepare working dilution in reagent quality water immediately before use. Working dilutions are not recommended for long-term storage.

Optimal working concentrations should be determined experimentally. A recommended starting dilution for most lateral flow assays is between 2 to 4 O.D. of gold conjugate per foot of conjugate pad.

### Drying Gold Conjugate on Ribbon

To effectively dry down the gold conjugate, add 0.1 mL of Conjugate Drying Buffer for every 1.0 mL of diluted conjugate. Mix thoroughly. Apply to either glass fiber or polyester pad. If the solution does not appear to uniformly wet the pad, consider pre-treating the pad or adding alcohol to the diluted conjugate solution. 5 to 40% methanol or ethanol may be required.

Alternatively, pre-treated pads may be purchased (see Related Products).

Place conjugate pads in a vented 37°C oven or incubator for one to four hours to dry thoroughly. Ensure that the pad is completely dried, and store desiccated until used.

### Product Safety and Handling

This product is for research use only. Please review the Safety Datasheet (SDS) available online ([bioassayworks.com](http://bioassayworks.com)) for proper safety and handling procedures.

### Related Products

Conjugate Ribbon Kit, Cat. No.: TTRK-120-002

Conjugate Drying Buffer, Cat. No.: CDB-002

**For all BioAssay Works offerings, visit us at [bioassayworks.com](http://bioassayworks.com)**

### Warranty

These products are warranted to perform as described in their labeling and in BioAssay Works®, LLC literature when used in accordance with instructions. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THIS EXPRESSED WARRANTY, AND BIOASSAY WORKS, LLC DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR PARTICULAR PURPOSE. BioAssay Works®, LLC sole obligation and purchaser's exclusive remedy for breach of this warranty shall be, at the option of BioAssay Works, LLC, to repair or replace the products. In no event shall BioAssay Works, LLC be liable for any proximate, incidental, or consequential damages in connection with the products.

Not for resale without express authorization.

For Research Use Only - not for diagnostic or therapeutic use.

BioAssay Works, LLC • 10075 Tyler Place #18 ljamsville, MD 21754 • (301) 874-8888 • Fax: (301) 874-8889

L-PI-DPRG-01