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Datasheet for ABIN5665091

Gold-in-a-Box™ Conjugation Kit, 20 nm & 40 nm

Overview

Quantity:	18 mL
Application:	Conjugation (Con)

Product Details

Purpose: The Gold-in-a-Box™ Conjugation Kit contains the reagents required to prepare highly-reactive antibody or soluble-protein gold conjugates that can be utilized in lateral-flow assays. Kit provides both 20 nm and 40 nm gold sols.

Brand: Gold-in-a-Box™

Characteristics: The Gold-in-a-Box™ Conjugation Kit, 20 nm and 40 nm, contains the reagents required to prepare highly-reactive antibody or soluble protein gold conjugates that can be utilized in lateral-flow assays.

The key to most high-performance lateral-flow assays is the ability to covalently attach antibodies/proteins to gold nanoparticles. The Gold-in-a-Box™ Conjugation Kit enables optimal binding of an antibody/protein to our Naked Gold 20 nm and 40 nm highly concentrated gold sols, while retaining a high degree of specific activity through adjusting the pH of the gold sols to slightly above the isoelectric point of the coating antibody/protein. This is done through a series of pH titrations with the provided buffers. The Gold-in-a-Box™ kit allows researchers and assay developers to quickly (in less than 50 minutes) determine the pI and optimal coating conditions for your antibody or soluble protein and to perform the conjugation reaction. A sample preparation and gold conjugation procedure is provided.

Reagents are also provided to coat the resultant gold conjugates on polyester or glass fiber ribbon.

Components: Naked Gold 20 nm Concentrated Gold Sol at 15 O.D./mL, 9 mL

Product Details

Naked Gold 40 nm Concentrated Gold Sol at 15 O.D./mL, 9 mL

Buffer Solution A, 1.0 mL

Buffer Solution B, 1.0 mL

Buffer Solution C, 1.0 mL

Buffer Solution D, 1.0 mL

BSA Blocking Stabilizer Solution, 2.0 mL

Gold Drying Buffer, 2.0 mL

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Handling Advice: Do not Freeze!

Storage: 4 °C

Expiry Date: 24 months