

# Product Datasheet

## InnovaCoat (R) Gold 40nm Biotin 240-0200

Unit Size: 200 uL

Store at 4C. Do not freeze.

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**240-0200**

InnovaCoat (R) Gold 40nm Biotin

**Product Information**

<b>Unit Size</b>	200 $\mu$ L
<b>Concentration</b>	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
<b>Storage</b>	Store at 4C. Do not freeze.

**Product Description**

<b>Description</b>	<p>InnovaCoat GOLD is a unique coated nanoparticle that has an avidly bound protective surface coat which can withstand the most extreme conditions (e.g. 2.5M NaOH at 70C for 2 hours).</p> <p>By covalently attaching biotin ligand to the surface coat the resulting InnovaCoat GOLD-Biotin nanoparticles inherit the stability attributes of the core nanoparticle; moreover the biotin ligand cannot desorb, which is a major problem with all competing products in which a biotin analogue is directly attached to the metal.</p> <p>Biotin is attached to InnovaCoat GOLD via an extended linker to facilitate high affinity molecular interactions with avidin and streptavidin.</p> <p><b>OD (concentration): 10</b>  <b>Size of gold: 40 nm</b></p> <p>InnovaCoat GOLD Biotin demonstrates enhanced sensitivity compared to competitor products in lateral flow assays.</p>
<b>Notes</b>	<p>This product is manufactured by Abcam and distributed by Novus Biologicals.</p> <p>This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned guarantee period on the limitations section of this products datasheet. Please contact <a href="mailto:technical@novusbio.com">technical@novusbio.com</a> with questions.</p>

**Product Application Details**

<b>Application Notes</b>	To determine the effective concentration of the InnovaCoat GOLD Biotin we advise to measure the absorbance of light at 530nm using an UV-vis spectrophotometer after diluting your sample to an appropriate range for your piece of equipment (e.g. if the InnovaCoat GOLD Biotin is at 10 OD and is diluted 1:10 the Abs530nm for a 1 cm light path is expected to be around 1 AU).
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## Images

Flow Cytometry: InnovaCoat Gold 40nm Biotin Antibody Labeling Kit [240-0200] - The graph shows a comparison of test and control line signal intensities between conjugated gold nanoparticles from Competitor 1 or 2 and covalently conjugated InnovaCoat GOLD-Biotin on lateral flow test strips.

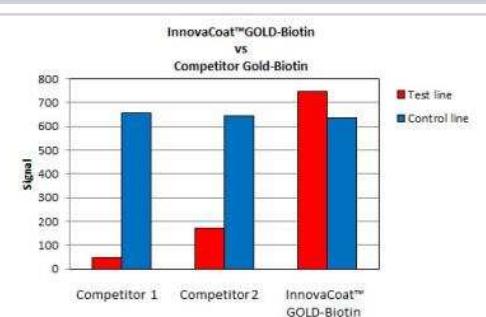
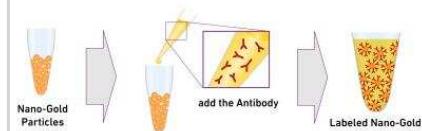


Figure 4.  
The graph shows a comparison of test and control line signal intensities between conjugated gold nanoparticles from Competitor 1 or 2 and covalently conjugated InnovaCoat™ GOLD-Biotin on lateral flow test strips.

## InnovaCoat Gold 40nm Biotin Antibody Labeling Kit [240-0200]





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## Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Support products are guaranteed for 6 months from date of receipt.

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