G-Biosciences ♦ 1-800-628-7730 ♦ 1-314-991-6034 ♦ technical@GBiosciences.com

A Geno Technology, Inc. (USA) brand name

# Well-Coated™ Nickel

## 96-Well Plates Coated with Nickel for Binding 6X His Tagged Proteins

## (Cat. # 786-749, 786-768, 786-769)

## INTRODUCTION

Well-Coated™ Nickel plates are designed to specifically bind 6X histidine (polyhistidine) tagged proteins and peptides. The plates can be used for the isolation of polyhistidine-tagged proteins direct from bacterial lysates and then used for subsequent ELISA protocols.

The wells are coated to a 200µl depth and are supplied pre-blocked in our proprietary Superior™ Blocking Buffer. The clear, white and black plates are offered for colorimetric, chemiluminescence and fluorescent detection systems, respectively.

## KIT COMPONENTS

| Cat. # | Components | Size |
|---|---|---|
| 786-749 | Well-Coated™ Nickel 8-well strip plate, Clear | 5 plates |
| 786-768 | Well-Coated™ Nickel 96 well plate, Black | 5 plates |
| 786-769 | Well-Coated™ Nickel 96 well plate, White | 5 plates |

## STORAGE CONDITIONS

Shipped at ambient temperature. Upon arrival, store unopened at 4°C. Once opened the plates can be stored in an air tight, resealable bag with an appropriate desiccant at 4°C.

## BINDING CAPACITY

**Well-Coated™ Nickel:** ~9pmol His-tagged protein/well

## PROTOCOL

The following protocol is a simple direct ELISA protocol and the protocol and reagents used will have to be optimized for specific applications and assays.

## IMPORTANT

- Avoid using buffers that contain EDTA or other metal chelators, avoid reducing agents and avoid imidazole.

## ITEMS NEEDED BUT NOT SUPPLIED

- 6X His tagged protein cell lysate
- Dilution Buffer: Tris buffered saline (TBS, Cat. # 786-288) or phosphate buffered saline (PBS, Cat. # 786-289).
- Wash Buffer: femtoTBST™ (Cat. # 786-161) or femtoPBST™ (Cat. # 786-162); 10X concentrated wash buffers supplemented with Tween® 20. Or an appropriate wash buffer of choice.
- Enzyme Labeled Primary Antibody against the polyhistidine tagged protein; visit www.GBiosciences.com for horseradish peroxidase (HRP) and alkaline phosphatase (AP) labeling kits.
- Detection system, femtoELISA™ is a chromogenic detection system for HRP and AP (Cat. # 786-110 to 786-113)

## DIRECT ELISA ASSAY

1. Wash the wells to be used two times with 300µl Wash Buffer.
2. Dilute the cell lysate with Dilution Buffer and add up to 200µl to each well.
3. Incubate at room temperature for 1-2 hours, for optimal binding use a plate shaker.
4. Wash each well three times with 300µl Wash Buffer.
5. Add 200µl enzyme labeled primary antibody.
6. Incubate at room temperature for 0.5-1 hour with shaking.
7. Wash each well three times with 300µl Wash Buffer.
8. Detect the label signal according to the manufacturer's instructions using 200µl detection reagent per well.

## RELATED PRODUCTS

Download our Assay Development Handbook


http://info.gbiosciences.com/complete-assay-development-handbook

*For other related products, visit our website at www.GBiosciences.com or contact us.*

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