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## Certificate of Analysis

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Product: Goat anti-Human IgG + IgA + IgM, F(ab)'2 Fragment, HRP Conjugate

Part Number: GtxHu-010-GHRPX

Lot Number: 77-40-051220

Amount: 0.5 mg of lyophilized antibody (E<sup>1%</sup> at 280 nm = 13.0)  
(Product has been overfilled to ensure maximum recovery)

Label: Horseradish Peroxidase (HRP)

Form: Lyophilized

Purification: Affinity purified using solid phase Human IgG + IgA + IgM. F(ab)'2 fragment was prepared by pepsin digestion.

Purity: Affinity purified antibody is ≥ 90 % based on SDS-PAGE. Small amounts of intact IgG may be present.

Host: Goat

Immunogen: Purified Human IgG + IgA + IgM, whole molecule

Buffer: 10 mM Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 1 % (w/v) BSA, Protease/IgG free

Preservative: 0.1 % (v/v) ProClin 150– *Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase*

Reconstitution: Rehydrate with 0.55 ml of deionized water. Allow reconstituted product to stand at room temperature for at least 30 minutes prior to dilution. If necessary, centrifuge to remove any particulates. Prepare fresh working dilution daily.

Storage: Store lyophilized material at 2 - 8 °C. For storage at -20 °C after reconstitution, dilute with an equal volume of glycerol to prevent loss of enzymatic activity. Prepare working dilution prior to use and then discard.

Shelf Life: 1 year from date of receipt

Specificity: Based on IEP, this antibody reacts with:

- heavy chains on Human IgG + IgA + IgM
- light chains on all Human immunoglobulins

Cross Reactivity: Based on IEP, no reactivity is observed to:

- non-immunoglobulin Human serum proteins

Country of Origin: Goat antiserum was obtained from healthy animals of US origin and under the care of a registered veterinarian.

Note: This conjugate was prepared using Part # GtxHu-010-G, Lot # 27-176-012714.

Applications: This conjugate is suitable for use in: ELISA, WB, IHC, CL. The optimal working dilution should be determined by the investigator. Suggested starting dilution(s):

- 1:20-1:2,000 for most applications

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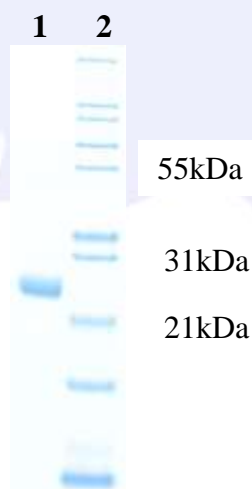
**Product may not be resold or modified for resale without prior written approval of ImmunoReagents, Inc.**

## Testing Results

**PRODUCT:** Goat anti-Human IgG + IgA + IgM, F(ab)'2 Fragment, HRP Conjugate  
**PART NUMBER:** GtxHu-010-GHRPX  
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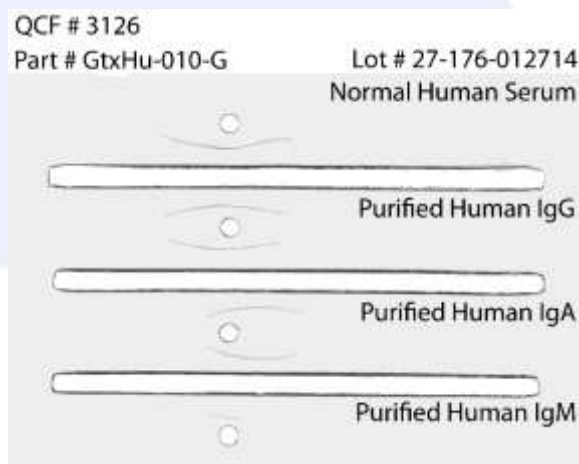
<u>TESTS</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance:	Reddish powder	PASS
Purity:	One predominant band at 24 kDa based on SDS-PAGE	PASS
Specificity:	Based on IEP, this antibody has precipitin bands with: <ul style="list-style-type: none"><li>heavy chains on Human IgG + IgA + IgM</li><li>light chains on all Human immunoglobulins</li></ul>	PASS PASS
Cross Reactivity:	Based on IEP, no precipitin bands are observed to: <ul style="list-style-type: none"><li>non-immunoglobulin Human serum proteins</li></ul>	PASS
ELISA:	Dilution giving A <sup>450</sup> reading of $\geq 1.0$ when tested against: <ul style="list-style-type: none"><li>purified Human IgG coated at 2 <math>\mu</math>g/ml</li><li>purified Human IgA coated at 2 <math>\mu</math>g/ml</li><li>purified Human IgM coated at 2 <math>\mu</math>g/ml</li></ul>	1:90,000 1:50,000 1:40,000

### SDS-PAGE



- 1) GtxHu-010-G, Lot # 27-176-012714
- 2) Mol Weight Standard

### Immunoelectrophoresis (IEP)



Date: May 20, 2020

Signature: \_\_\_\_\_

Quality Control