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## Certificate of Analysis

Product:	Goat anti-Human IgG + IgA + IgM, ALP Conjugate
Part Number:	GtxHu-010-DALP
Lot Number:	69-71-083019
Amount:	1.0 mg of antibody at 1.50 mg/ml ( $E^{1\%}$ at 280 nm = 13.0)
Label:	Alkaline Phosphatase (ALP)
Form:	Clear, colorless liquid
Purification:	Affinity purified using solid phase Human IgG + IgA + IgM
Purity:	Affinity purified antibody is $\geq 95\%$ based on SDS-PAGE
Host:	Goat
Immunogen:	Purified Human IgG + IgA + IgM, whole molecule
Buffer:	30 mM Triethanolamine, pH 7.2, 5 mM Magnesium Chloride, 0.1 mM Zinc Chloride, 1 % (w/v) BSA, Protease/IgG free
Preservative:	0.05 % (w/v) Sodium Azide
Storage:	Store undiluted liquid at 2 - 8 °C. For storage at - 20 °C, 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: <ul style="list-style-type: none"><li>• heavy chains on Human IgG + IgA + IgM</li><li>• light chains on all Human immunoglobulins</li></ul>
Cross Reactivity:	Based on IEP, no reactivity is observed to: <ul style="list-style-type: none"><li>• non-immunoglobulin Human serum proteins</li></ul>
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-D, Lot # 35-61-121114.
Applications:	This conjugate is suitable for use in: ELISA, WB, IHC, ICC, CL. The optimal working dilution should be determined by the investigator. Suggested starting dilution(s): <ul style="list-style-type: none"><li>• 1:500-1:2,000 for Immunohistochemistry</li><li>• 1:500-1:8,000 for ELISA/Western blot</li></ul>
Disclaimer:	<i>For in vitro Laboratory Use Only.</i> Not for diagnostic or therapeutic use. Not for human or animal consumption. The proper selection and use of our products is the sole responsibility of the end user, and therefore we can offer no guarantee to a specific experimental outcome. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license under any patent of ImmunoReagents, Inc.

**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, ALP Conjugate  
**PART NUMBER:** GtxHu-010-DALP  
**LOT NUMBER:** 69-71-083019

<u>TESTS</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance:	Clear, colorless liquid	PASS
Purity:	Two predominant bands at 50 and 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>405</sup> reading of ≥ 1.0 when tested against:	
	<ul style="list-style-type: none"> <li>• purified Human IgG coated at 2 µg/ml</li> </ul>	1: 7,800
	<ul style="list-style-type: none"> <li>• purified Human IgA coated at 2 µg/ml</li> </ul>	1: 3,900
	<ul style="list-style-type: none"> <li>• purified Human IgM coated at 2 µg/ml</li> </ul>	1: 4,000

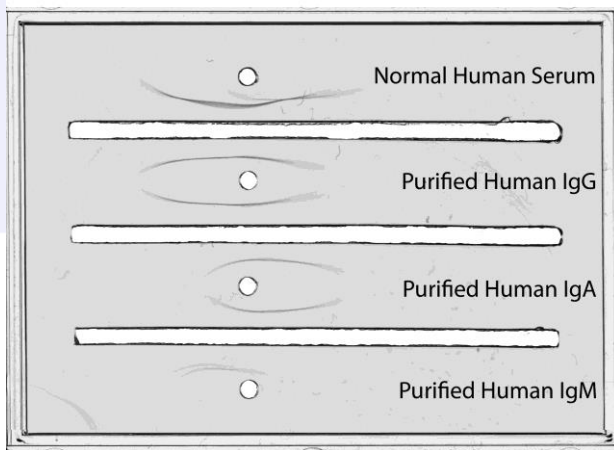
### SDS-PAGE



- 1) GtxHu-010-D, Lot # 35-61-121114
- 2) Mol Weight Standard

### Immunoelectrophoresis (IEP)

IEP Image for Goat anti-Human IgG + IgA + IgM, Affinity Pure  
 Part# GtxHu-010-D      Lot# 35-61-121114



Date: September 6, 2019

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

Quality Control

