

# AccuDiag<sup>™</sup> Total Human IgG ELISA Kit

Cat# 1803-9



Test	Total Human IgG
Method	Enzyme Linked Immunosorbent Assay
Principle	Sandwich Complex
Detection Range	0.156 mg/mL - 10.0 mg/mL
Sample	10 μL serum/ plasma
Specificity	94 %
Sensitivity	0.156 mg/mL
Total Time	~105 min
Shelf Life	12-14 Months from the manufacturing date

## **INTENDED USE**

To quantitate total human Immunoglobulin G (IgG)

## **TEST PRINCIPLE**

Solid phase capture sandwich ELISA assay using a microwell format.

## **Patient and Standard Dilutions:**

Dilute each serum or plasma specimen to be tested initially 1:100 with phosphate buffered saline (PBS) then dilute 1:100 in the IgG specimen diluent provided. The final dilution factor will be 1:10,000.

Prepare serial two fold dilutions of the human IgG standard: Neat, 1:2, 1:4, 1:8 etc. with the specimen diluent provided. Use the specimen diluent alone as the blank control well.

## MATERIALS AND COMPONENTS

# Materials provided with the test kits

- 1. Anti-Human IgG coated microwell strips 12x8 with plastic frame
- 2. HRP conjugated goat anti-human IgG-12mL
- 3. IgG standard (pre-diluted) 1 mL (**Store at -20**  $^{\circ}$  **C**)
- 4. TMB/peroxide substrate color developer –12mL
- 5. IgG specimen diluent -1 x 60mL
- 6. Sulfuric acid termination reagent (0.5N) -12mL
- 7. 15 X Wash buffer concentrate 60mL

#### **ASSAY PROCEDURE**

 $\boldsymbol{\ast}$  Caution: All human fluids should be treated as infectious agents that could carry HIV.

\*Allow each reagent to reach room temperature before use

- 1. Add 100uL of diluted specimen or standard to each microwell
- 2. Incubate at room temperature for 45 minutes
- Decant and wash each microwell four times with wash buffer (dilute buffer 1:15 with reagent grade water)
- 4. Add 100uL of HRP conjugated goat anti-human IgG to each well
- 5. Incubate at room temperature for 45 minutes
- 6. Decant and wash as in step 3
- Add 100uL of TMB/peroxide substrate and incubate at room temperature for 15 minutes
- 8. Terminate the reaction with 100uL of 0.5N sulfuric acid
- 9. Zero the microwell reader at 450nm using the specimen diluent zero control well Determine the optical density (O.D.) of the remaining wells
- Construct a standard curve using the O.D. values obtained for each of the standards Interpolate the unknowns from the standard curve

\*Interpolated concentrations greater than 10 mg/mL should be sub diluted 1:4 and re-assayed then corrected mathematically

## LIMITATIONS OF PROCEDURE

No single assay should be used as the only basis for arriving at a diagnostic conclusion. For research use only.

# **Dynamic Range:**

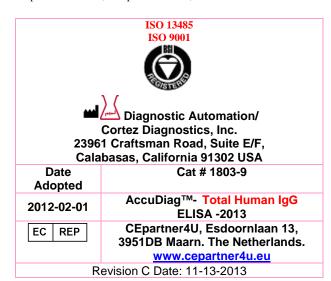
0.156 mg/mL to 10.0 mg/mL.

# Reproducibility:

C.V. 6%-10% depending upon the region of the standard curve.

# **Shelf Life**

The expiration date for the package and each component is stated on the label(s). Store components at  $2-8^{\circ}$ C, except for standard, which should be stored at  $-20^{\circ}$ C.



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