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Total Human Apolipoprotein A1 ELISA Assay

REF

Catalog No. E4-241

IVD

For Research Use Only

Intended Use:
To quantitate total human Apolipoprotein A1 (Apo A1)

Principle of Procedure:
Solid phase capture sandwich ELISA assay using a microwell format.

Shelf Life:
The expiration date for the package and each component is stated on the label(s). Store all components at 2°-8° degrees C except for the standard, which should be stored at -20°C.

Patient and Standard Dilutions:
*Dilute the 15X wash buffer provided 1:15 using one part wash buffer concentrate and 14 parts reagent grade water.
Dilute each serum, plasma or tissue culture fluid specimen to be tested 1:10,000 with diluted wash buffer to form a final 1:10,000 dilution. Prepare serial two fold dilutions of the human Apo A1 standard: Neat (N), 1:2, 1:4, 1:8 etc. using diluted wash buffer. Use diluted wash buffer alone as the blank or zero control well.

Materials Supplied:
Anti-Human Apo A1 coated microwell strips 12x8 with plastic frame
HRP conjugated affinity purified goat anti-Apo A1 - 12mL
**Apo A1 standard (pre-diluted 1:10,000)- 1 ml
TMB/peroxide substrate color developer –12mL
Sulfuric acid termination reagent (0.5N) –12mL
15 X Wash buffer concentrate – 2x60mL

Limitations of the Procedure:
No single assay should be used as the only basis for arriving at a diagnostic conclusion.
Dynamic Range:
9.375 mg/dl-600mg/mL
Reproducibility:
C.V. 6%-10% depending upon the region of the standard curve.
Assay Procedure:
*****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 2 hours.
3. 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-Apo A1 to each well.
5. Incubate at room temperature for 2 hours.
6. Decant and wash as in "step 3".
7. Add 100uL of TMB/peroxide substrate and incubate at room temperature for 30 minutes.
8. Terminate the reaction with 100uL of 0.5 N sulfuric acid.
9. Zero the microwell reader at 450nm using the specimen diluent zero control well.
10. Determine the optical density (O.D.) of the remaining wells.
11. Construct a standard curve using the O.D. values obtained for each of the standards.
12. Interpolate the unknowns from the standard curve.

Note: This Apo A1 Standard has been calibrated against the International Federation of Clinical Chemistry (IFCC) Standard, Lot Number 293 and has been demonstrated to recover 100% of this standard.

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