

Voltage-Gated Calcium Channel Autoantibody (VGCCAb) – N-Type

RADIOIMMUNOASSAY

FOR RESEARCH USE

ASSAY CHARACTERISTICS

Semi-Quantitative

Controls (Included): 2 Positive, 1 Negative

TOTAL RUNNING TIME

18 hours 10 minutes

SPECIMEN MATRIX

Human Serum

SAMPLE CALCULATION

$\text{pmol/L} = 1000 \times D / (K \times A \times C \times B \times 2.22)$

- (A) Decay Factor
- (B) Counter Efficiency
- (C) Serum Volume
- (D) CPM – Negative Control
- (K) Specific Activity

The KRONUS N-Type Voltage-Gated Calcium Channel Autoantibody (N-VGCCAb) RIA Assay Kit is for the semi-quantitative determination of autoantibodies to N-type voltage-gated calcium channels (N-VGCC) in human serum.

In the KRONUS N-VGCCAb RIA Kit, N-VGCC autoantibodies in sera and controls are allowed to interact with detergent solubilized N-VGCCs that are complexed with ^{125}I labeled ω -conotoxin GVIA. After incubation at 2-8° C overnight, the resulting antigen-antibody complexes are immunoprecipitated by the addition of anti-human IgG. After a second incubation of 1½ hours, assay buffer is added and the tubes centrifuged. Unbound ^{125}I labeled ω -conotoxin GVIA is removed from the tubes by decanting or aspiration of the supernatant. The level of radioactivity remaining in the tube is proportional to the antibody level in the test sample.

ORDERING INFORMATION

KR7500 – 25 Tube Kit



For Research Use Only. Not For Use in Diagnostic Procedures.

 **KRONUS**

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ASSAY PROCEDURE

Sample Volume: 50 μ L per Tube

Positive Controls, Negative Control and Diluted Samples into Labeled Tubes: 50 μ L

125 I N-VGCC Tracer: 50 μ L
Gently Vortex Tubes
16-20 Hour Incubation at 2-8° C

Anti-Human IgG: 50 μ L
Gently Vortex Tubes
1 ½ Hour Incubation at 2-8° C

Wash Buffer: 1 mL
Gently Vortex Tubes
Centrifuge Tubes for 20 Minutes at 2-8° C

Wash Buffer: 1 mL
Gently Vortex Tubes
Centrifuge for 20 Minutes at 2-8° C

Decant and Drain:
Count Radioactivity of Pellets for 1 Minute

Total Assay Time is Approximately 18 Hours 10 Minutes

For over 35 years, KRONUS has provided specialized immunoassay test kits to medical professionals at the world's most respected laboratory facilities. Please contact us directly with any questions, requests or comments that you may have. We welcome the opportunity to learn how KRONUS can be of assistance in meeting your laboratory's immunoassay test kit needs.



...Your Source for Sensitive Autoimmune Diagnostics

Intended for informational purposes only. Please see Product Direction Insert for complete details, instructions, limitations, etc.

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