

# Acetylcholine Receptor Autoantibody (AChRAb)

## ELISA

FOR RESEARCH USE

### ASSAY CHARACTERISTICS

Semi-Quantitative

Calibration: 4 Calibrators, 0.5 - 20 nmol/L

Controls (Included): 2 Positive, 1 Negative

### TOTAL RUNNING TIME

19 Hours

### SPECIMEN MATRIX

Human Serum

### SAMPLE CALCULATION

$$100 \times \left( 1 - \frac{\text{Sample OD at 450nm}}{\text{Negative Control OD at 450nm}} \right)$$

This % inhibition value can then be converted to nmol/L toxin bound using the formula:

$$0.2 \times 2 (0.067 \times \% \text{ Inhib of test samples})$$

Results can also be read off of calibration curve.

The KRONUS Acetylcholine Receptor Autoantibody (AChRAb) ELISA Assay Kit is intended for the semi-quantitative determination of AChRAb in human serum.

The KRONUS AChRAb ELISA assay kit depends on the ability of AChRAb in human serum to bind to similar sites on the AChR as various monoclonal antibodies such as MAb1 (coated on ELISA plate wells) and/or MAb2 and/or MAb3 (which are labeled with biotin). In the absence of AChRAb a complex is formed between MAb1 coated on the plate wells, the AChR and MAb2 and MAb3 biotin. MAb2 and MAb3 biotin bound are then detected by the addition of streptavidin peroxidase (SA-POD), substrate (TMB) and stop solution. In the presence of AChRAb the formation of the MAb1-AChR-MAb2/MAb3 biotin complex is inhibited, resulting in less SA-POD being bound and a reduction in final absorbance at 450nm. The higher the concentration of AChRAb in the test serum, the greater the inhibition of MAb biotin binding.

### ORDERING INFORMATION

KR7800 — 96 Well Kit

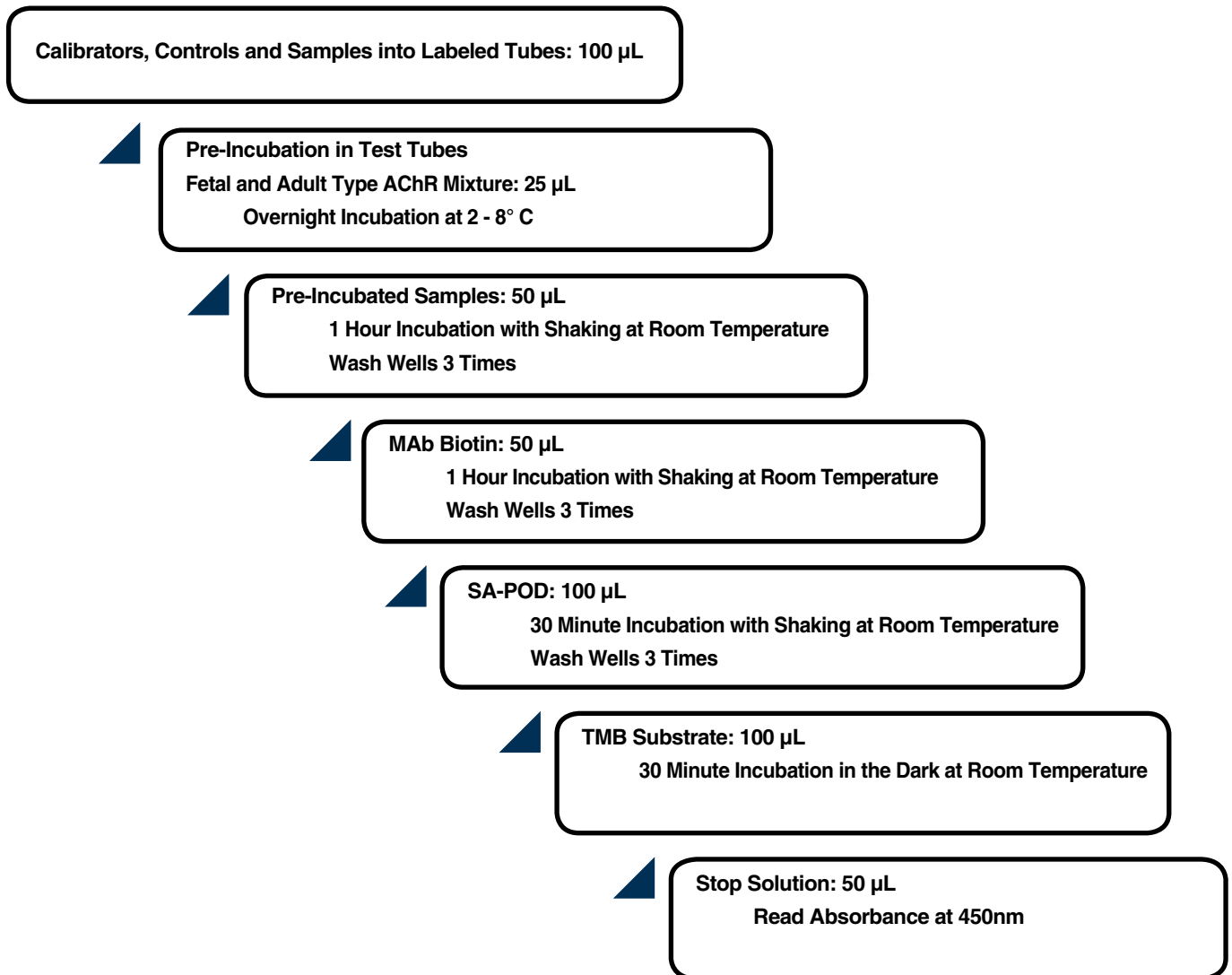
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 **KRONUS**<sup>®</sup>

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## ASSAY PROCEDURE

Sample Volume: 100  $\mu$ L per Well



Total Assay Time is Approximately 19 Hours

For nearly 30 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 warmly 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