

FAST ACETYLCHOLINE RECEPTOR (AChR) AUTOANTIBODY ELISA KIT

ElisaRSR™ Fast AChR Ab

Description: Enzyme linked immunosorbent assay (ELISA) kit for the quantitative determination of autoantibodies to the acetylcholine receptor (AChR) in serum. Method is based on three different monoclonal autoantibodies which bind to epitopes on the AChR which are similar to those recognised by autoantibodies in the serum of patients with Myasthenia Gravis.

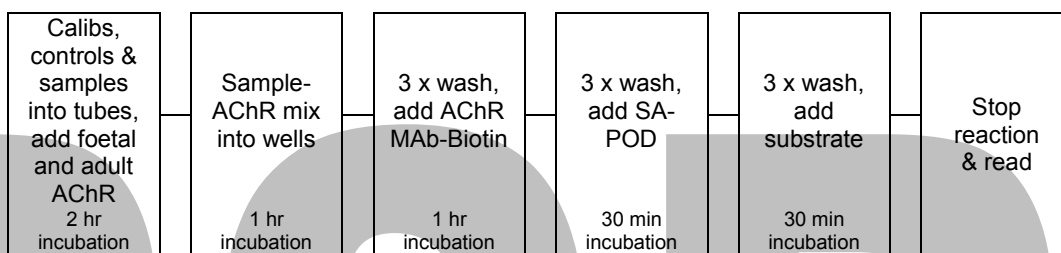
Disease application: Myasthenia Gravis (MG)

Test samples: Sera may be used. Do not use lipaemic or haemolysed serum samples or plasma.

Sample volume: 50 µL per well (100 µL per patient)

Total assay time: Approx. 5.5 hours

Assay method:



Sensitivity: 92% n = 48 for MG patients

Specificity: 100% n = 50 for healthy blood donors

Calibrator range: 0.5 – 20 nmol/L

Cut-off: Negative: <0.45 nmol/L; Positive: ≥0.45 nmol/L

Limit of detection: 0.30 nmol/L (mean + 2 standard deviations in assay of negative control and low analyte sample; n = 20 in 3 kit lots)

Advantages: A quick non-isotopic assay suitable for use in routine clinical laboratories in automated or manual formats. Refrigeration not required for incubation steps.

Features: Reliable and convenient method to measure autoantibodies to both foetal and adult AChR in MG. AChR Ab levels in test samples expressed in nmol/L are comparable to levels measured in ElisaRSR™ AChR Ab.

Kit size: 96 wells

Order code: FAE/96

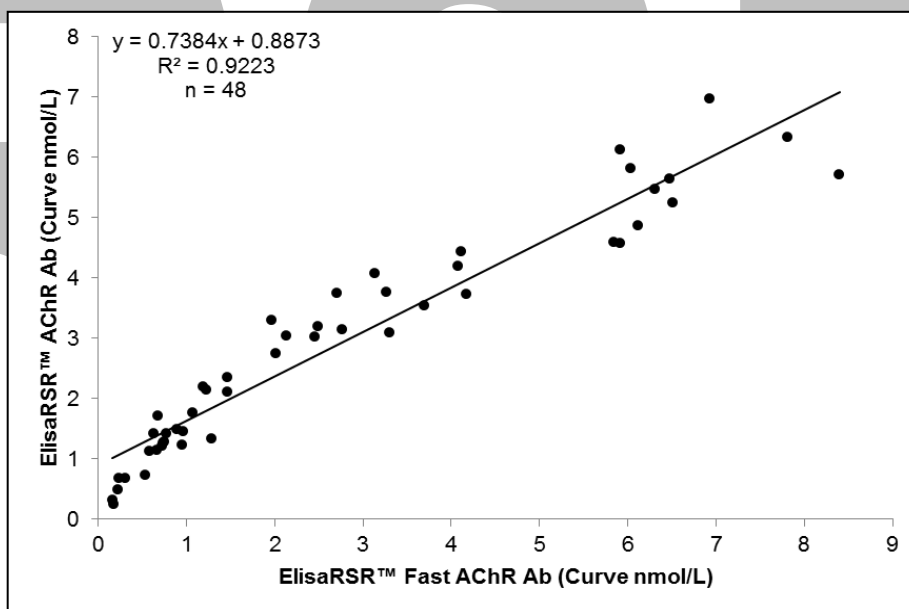
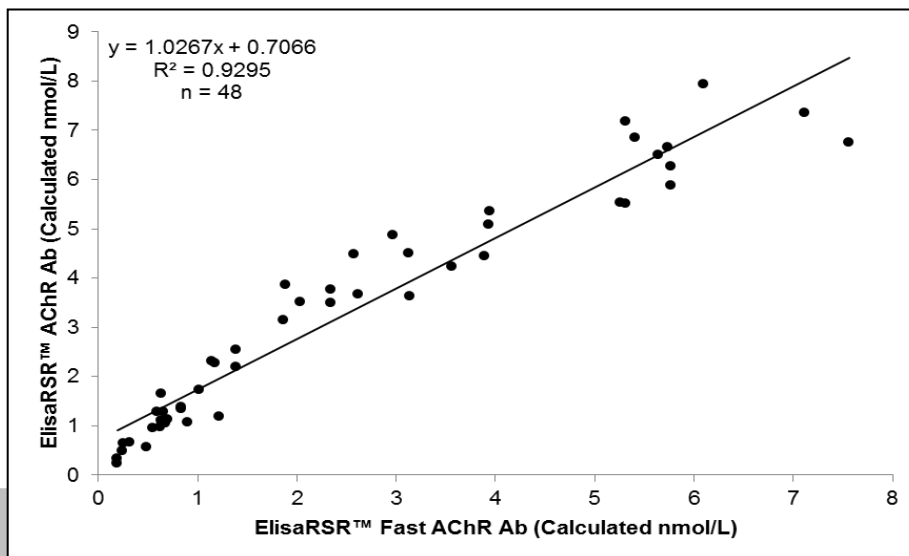
Literature: R Hewer et al, Clinica Chimica Acta 2006 **364**: 159 – 166
A sensitive non-isotopic assay for acetylcholine receptor autoantibodies

This kit is intended for in-vitro use by professional persons only. The data quoted is for guidance only. Each laboratory should establish its own normal and pathological reference ranges for the assay and should include its own panel of control samples in the assay along with the controls provided as part of the kit.

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Correlation:



Comparison:

	ElisaRSR™ AChR Ab	ElisaRSR™ Fast AChR Ab	Notes
Total assay time	20 hours	5.5 hours	
Cut-off	≥0.45 nmol/L	≥0.45 nmol/L	As per IFU
Assay sensitivity	95.8% 46/48 positive	89.6% 43/48 positive	n = 48 MG

n = 48 MG		ElisaRSR™ AChR Ab	
		Negative	Positive
ElisaRSR™ Fast AChR Ab	Negative	2	3
	Positive	0	43

Concordance rate: 93.8%