

RHEUMATOID ARTHRITIS (RA) TEST KIT



Method: Latex-Enhanced Turbidimetric Immunoassay (LETIA) Quantitative Fixed Time

Product Specifications

Product Code	10045	Reaction Type	Fixed Time (Two Point)
Pack Size	50 ml System Matrix	Wavelength	630 nm
Storage Temp	2-8°C (Protect from Light)	Linearity Range	Up to 150 IU/ml

Intended Use & Clinical Significance

This latex-enhanced turbidimetric immuno-diagnostic system is configured for the rapid, direct quantitative determination of Rheumatoid Factor (RF) antibodies within human serum and plasma specimens.

Method Principle

Patient RF antibodies react with uniform latex particles coated with human γ -globulin to form insoluble immunological aggregates, inducing a measurable increase in optical turbidity at 630 nm.

Calibration Curve Plotting

Reagent / Dilution	1st (Neat)	2nd (1/2)	3rd (1/4)	4th (1/8)	5th (1/16)
Active RF Calibrator	100 μ l	50 μ l (from 1st)	50 μ l (from 2nd)	50 μ l (from 3rd)	50 μ l (from 4th)
Normal Saline	-	50 μ l	50 μ l	50 μ l	50 μ l

Procedure

Component	Calibrator (C)	Test (T)
R1-RF Buffer	400 μ l	400 μ l
R2-RF Latex	100 μ l	100 μ l
Calibrator/Sample	5 μ l	5 μ l

Mix gently. Record initial absorbance (A1) at 10 seconds and terminal absorbance (A2) at 130 seconds (120 seconds interval).

Calculation: RF Antibody Conc. (IU/ml) = $[\Delta A_{\text{Test}} / \Delta A_{\text{Calibrator}}] \times \text{Calibrator Concentration}$

