



METHOD: LATEX- IMMUNOTURBIDIMETRIC ASSAY; ENDPOINT

FEATURES:

SEKURE™ TPLA AND RPR REAGENTS

- ✓ Fully automated methodologies
- ✓ TPLA and RPR run on the same platform allowing for reflex testing
- ✓ Fast results (10 minute assay)
- ✓ Good correlation with traditional methods (TPHA/ RPR Card test)
- ✓ Definitive quantitative result

The SEKURE TPLA (treponemal) and RPR (non- treponemal) reagents are fully automated, quantitative latex immunoturbidimetric methods that are used as an aid in the diagnosis of Syphilis.

BENEFITS:

The SEKURE TPLA Reagent method utilizes polystyrene latex, coated with antigen components derived from *Treponema pallidum* (Nichols strain). It is intended for the determination of anti-*Treponema pallidum* antibodies in human serum or plasma.

- ✓ Accurate, precise and consistent results
- ✓ Flexible workflow and faster turnaround time
- ✓ Convenient and efficient
- ✓ Reliability and confidence in results
- ✓ The SEKURE RPR can detect small changes in titre, giving a truer reflection of therapeutic effects compared to the RPR card test¹

The SEKURE RPR Reagent method utilizes polystyrene latex, coated with lipid antigens (cardiolipin and lecithin). It is intended for the determination of syphilitic anti-lipid antibodies in human serum or plasma.

ORDERING INFORMATION	CONFIGURATION	CATALOG NUMBER
<input type="radio"/> SEKURE TPLA REAGENT	R1 1 X 60 mL R2 1 X 10 mL	486647
<input type="radio"/> SEKURE TPLA CALIBRATOR SET	5 LEVELS X 2 mL	515132
<input type="radio"/> SEKURE TPLA CONTROL SET	LEVEL A: 1 X 3 mL LEVEL B: 1 X 3 mL	515149
<input type="radio"/> SEKURE RPR REAGENT	R1 1 X 60 mL R2 1 X 20 mL	486616
<input type="radio"/> SEKURE RPR CALIBRATOR SET	5 LEVELS X 1 mL	486623
<input type="radio"/> SEKURE RPR CONTROL SET	POSITIVE 2 X 1 mL NEGATIVE 2 X 1 mL	486630



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NOT AVAILABLE IN USA OR CANADA

PERFORMANCE CHARACTERISTICS

	TPLA	RPR
PRECISION	Within-Run: < 2.7% Total Precision: < 4.5%	Within-Run: < 3.8% Total Precision: < 5.1%
METHOD COMPARISON	Slope: 1.06 Intercept: 10.5 T.U. Correlation Coefficient: 0.828	Slope: 1.01 Intercept: 0.35 R.U. Correlation Coefficient: 0.909
LINEARITY	5 T.U. TO 250 T.U.	0.2 TO 8.0 R.U.
NO SIGNIFICANT INTERFERENCES UP TO LEVELS INDICATED	Hemoglobin: 490 mg/dL (76.0 µmol/L) Conjugated Bilirubin: 18.5 mg/dL (316.4 µmol/L) Unconjugated Bilirubin: 18.5 mg/dL (316.4 µmol/L) Lipemia: 0.25% (intralipid) Rheumatoid factor: 500 IU/mL A high dose hook effect was not observed at analyte concentrations up to 362 T.U. No false positives were found in samples from collagenosis patients, pregnant women and dialysis patients.	Hemoglobin: 488 mg/dL (75.7 µmol/L) Conjugated Bilirubin: 21 mg/dL (359.1 µmol/L) Unconjugated Bilirubin: 19.7 mg/dL (336.9 µmol/L) Lipemia: 1.0% (intralipid) Rheumatoid factor: 450 IU/mL A high dose hook effect was not observed at analyte concentrations up to 100.5 R.U.
REFERENCE RANGE	A measurement of 10 T.U. or higher indicates that the sample is antibody positive.	A measurement of 1 R.U. or higher indicates that the sample is antibody positive.
CLINICAL SENSITIVITY	100% ^{1,3,4}	99.5% ^{1,5}
CLINICAL SPECIFICITY	99.6% ^{2,3,4}	99.5% ⁶

- (1) Osato K et al. Clinical Evaluation of Latex Agglutination Test Kits for Detecting Anti-syphilitic Lipoidal Antibodies and Anti-treponemal Antibodies. Japanese Journal of Sexually Transmitted Diseases 2002; 13 (1):124–130.
- (2) Shibasaki M et al. An Automated Measurement of Anti-Treponema Antibody Titer by MEDIACE TPLA, a Latex Agglutination Test using Hitachi 7170 Automatic Analyzer. The Journal of Clinical Laboratory Instruments and Reagents 1996; 19 (4):635–639.
- (3) Osato K et al. Clinical Evaluation of Automated Latex Agglutination Test Kits (TPLA) for Syphilis Diagnosis. The Journal of Clinical Laboratory Instruments and Reagents 1991; 14 (4):739–743.
- (4) Kataniwa Y et al. Clinical Evaluation of Latex Reagent Semedia TPLA for Diagnosis of Syphilis. The Journal of Clinical Laboratory Instruments and Reagents 1991; 14 (4):735–738.
- (5) Kawai K et al. The possibility of assessing the stage of infection by using Mediace TPLA and RPR. The Journal of Clinical Laboratory Instruments and Reagents 2003; 26 (4): 301–304.
- (6) Kinjo T et al. Laboratory -based evaluation of Latex Agglutination Turbidimetric Assay by Mediace RPR on P Module of Hitachi Auto analyzer 7600 to Quantitatively Determine Serum RPR Antibody. Japanese Journal of Clinical Laboratory Automation (JJCLA) 2005; 30 (3): 257–262.

NOTES:



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