

## INTRODUCTION

1. **Infinite** Turbilatex CRP is a reagent set for quantitative determination of C-Reactive Protein in human serum based on Turbidimetric method.
2. **Infinite** Turbilatex CRP is a two liquid reagent system using one step procedure.
3. **Infinite** Turbilatex CRP can be determined in just 2 minutes.
4. **Infinite** Turbilatex CRP is linear upto 150 mg/L.
5. **Infinite** Turbilatex CRP can be used on any Spectrophotometer, Discrete semi-automated and automated analyzer.

## PRINCIPLE

**Infinite** Turbilatex CRP contain latex particles coated with specific anti-human CRP which reacts with CRP in the sample resulting in agglutination. Agglutination causes change in absorbance, measured at 540 nm (530 - 550 nm) & is proportional to the concentration of CRP in the sample.

## PREPARATION OF WORKING SOLUTION

Swirl the latex vial gently before use and prepare working solution by mixing Reagent R1 and Reagent R2 in the ratio 9 : 1 as per the requirement.

Lyophilized calibrator should be reconstituted by adding 1.0 ml of distilled or deionized water. Dissolve the contents of the vial by swirling gently to avoid the formation of foam. Do not shake. Let stand for 20 minutes at room temperature before use.

## REAGENT STORAGE, STABILITY & HANDLING

The reagent kit should be stored at 2 - 8°C and is stable till the expiry date indicated on the label. It is recommended to store the reagents at 2 - 8°C, tightly closed after use.

The working solution (9R1 + 1R2) is stable for 30 days at 2 - 8°C.

DO NOT FREEZE THE REAGENTS. Frozen Latex or Diluent could change the functionality of the test.

Contamination of the reagents should be strictly avoided.

Reconstituted calibrator is stable for 1 month at 2 - 8°C or 3 months at - 20°C.

## COMPONENTS & CONCENTRATION OF WORKING SOLUTION

R1 : Tris buffer	>	15 mmol/L	-	45 ml
R2 : Latex particles coated with anti - CRP antibody	-			5 ml
R3 : CRP Calibrator (Value mentioned on vial label)	-			1 ml

## SPECIMEN COLLECTION & PRESERVATION

Fresh serum sample is preferred. Samples with presence of fibrin should be centrifuged before testing.

CRP in serum is stable for 7 days at 2 - 8° C and for 3 months at -20° C. Sample should be brought to room temperature before use.

Do not use highly haemolyzed or lipemic samples.

### PROCEDURE

- ☐ Reaction type .....Fixed-Point
- ☐ Reaction direction .....Increasing
- ☐ Wavelength .....540 nm.
- ☐ Flowcell temp.....37°C
- ☐ Zero setting with .....Distilled Water
- ☐ Delay time .....5 sec
- ☐ No. of readings .....2
- ☐ Interval .....120 sec
- ☐ Sample volume .....5 µl
- ☐ Working solution volume (9R1 + 1R2) .....1.0 ml
- ☐ Linearity .....150 mg/L

#### Manual Assay Procedure

Perform the assay as given below:

Reagents	Calibrator	Sample
	5 µl	5 µl
Working Solution	1.0 ml	1.0 ml

Mix & aspirate the assay mixture. The first reading should be recorded at 5 seconds (A1) followed by second reading after 120 seconds (A2) interval at 540 nm.

#### CALCULATION :

$$\text{Factor} = \frac{\text{Conc. of Calibrator}}{(\text{A2} - \text{A1}) \text{ Calibrator}}$$

$$\text{CRP (mg/L)} = (\text{A2} - \text{A1}) \text{ Sample} \times \text{Factor}$$

## EXPECTED VALUES

Upto 6 mg/L

Expected range varies from population to population. It is therefore recommended that each laboratory should establish its own normal range.









**NEW**  
**AT-112** PLUS  
Biochemistry Analyzer

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- A white and grey Accurex RT-112 Plus electronic scale. It features a digital LCD display in the center, a small printer on the right side with a receipt emerging, and the Accurex logo on the front left. The scale has a flat weighing platform on top.

## Semi Automated Clinical Chemistry Analyzer

## REFERENCES

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	In Vitro Diagnostic Use		Date of Manufacturing
	Consult Instructions for use		Use by (YYYY-MM-DD)
	Catalogue Number		Temperature Limitation
	Batch Code		Manufacturer

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Clinical Chemistry

# Infinite

## Turbilatex CRP

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