KIVO CRP- Advance (High Linearity)

LETIA

(Latex Enhanced Turbidimetric Assay)

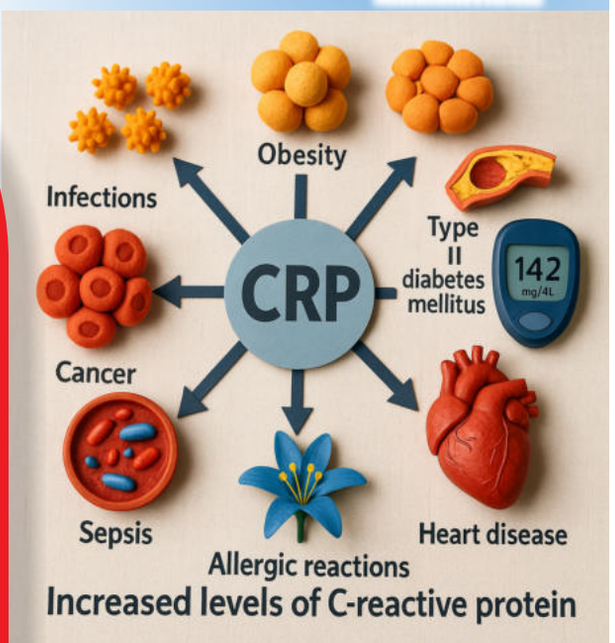
(Widest Measuring Range 0.5 - 250 mg/L)

India's the most Reliable CRP Assay with the High Linearity of 250 mg/L.

Kivo proudly announces the introduction of Kivo CRP-Advance (High Linearity) in its premium series whose linearity stands tall at 250 mg/L when compared to that of the competitors' brands. This innovation truly represents our Kivo Brand name. Extensive evaluation and relentless efforts with unwavering commitment went in to developing this advanced version of CRP Assay. Very high samples above 100 mg/L were comparatively evaluated on multiple high end platforms like IFA (Immunofluorescence), CLIA (Chemiluminescence), ECLIA (Electro Chemiluminescence) and the results of Kivo's CRP-Advance were found to be comparable and clinically correlated too.

Kivo always believed in offering quality products under its registered brand name Kivo and made an enviable customer base for the CRP and to carry on the legacy we have now developed Kivo CRP-Advance which got evaluated extensively with other high end platforms mentioned above for the samples with the CRP concentrations above 100 mg/L

Note : This product must not be compared to CRP Assays that are low in linearity and can not recover the CRP above 100 mg/L. This product can be compared to high end detection assays mentioned above. Kivo has done extensive R & D in developing this phenomenal product. This product helps pathologists to monitor the Antibiotic treatment on critically ill patients where high CRP Concentrations are reported .



High CRP Concentrations implicated in the following conditions

Infectious Conditions:

- Bacterial Infections (Mejority of the time)
- Viral Infections(Prolonged)
- Pneumonia
- Sepsis
- Bacterial Sinusitis
- Dysregulated Inflammatory response there by tissue damage

Non Infectious Conditions:

- Massive thrombosis
- Pulmonary Embolism
- Cancer
- Autoimmune Diseases
- Major Trauma
- Major Surgery

Product Features

- Latex Enhanced Turbidimetric Immuno Assay (LETIA)
- Two liquid reagents (Turbilatex and Diluent)
- Linearity up to 250 mg/L (No need of diluting the sample till 250 mg/L)
- Liquid Calibrator provided
- Greater detectability of high CRP concentrations in samples of the patients with high grade bacterial Sepsis, Infections and Inflammations
- No prozone effect was detected until 250 mg/L
- Bilirubin(500 mg/dL), Lipemia (3000 mg/dL) and Rheumatoid factors (560 IU/mL) do not interfere where as Hemoglobin (greater than 6gm/L) interferes

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Kivo
Lifesciences Pvt. Ltd.
Awesome IVDs

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CRP High Linear Assay!

Accurate measurement of high CRP concentrations is vital for several key reasons:

1. Broad Applicability: Linearity assays ensure test accuracy across a wide range of CRP levels, from normal to extremely high.

2. Timely Diagnosis: High CRP levels can indicate severe inflammation or infection, such as sepsis. Accurate measurement enables prompt diagnosis and intervention.

3. Disease Activity Monitoring: In chronic conditions like rheumatoid arthritis, high CRP levels signify active disease. Accurate measurement helps track disease activity and treatment response.

4. Risk Evaluation: Elevated CRP levels are linked to cardiovascular disease risk. Precise measurement informs risk assessment and guides preventive strategies.

5. Treatment Decision-Making: High CRP levels may necessitate aggressive treatment or hospitalization. Accurate measurement supports informed treatment decisions.

6. Research and Clinical Trials: Precise measurement of high CRP concentrations is essential in research studies and clinical trials investigating inflammatory conditions.

7. Quality Assurance: Accurate recovery of high CRP concentrations ensures assay performance and maintains confidence in results.

8. Patient Safety: Inaccurate measurement can lead to delayed or inappropriate treatment, compromising patient safety.

9. Error Reduction: Linearity assays minimize measurement errors, reducing the risk of misdiagnosis or incorrect treatment.

10. Immunocompromised Patient Care: High CRP levels can indicate infection in immunocompromised patients. Accurate measurement is critical for timely intervention.

By ensuring accurate measurement of high CRP concentrations, laboratories provide reliable results that support informed decision-making and optimal patient care.

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Kivo Lifesciences Pvt. Ltd.

Why Low Linearity CRP Assays cant' be used!

Low linearity assays fail to recover high concentrations of CRP due to the below factors:

1. Saturation: The assay becomes saturated, unable to accurately measure high CRP concentrations.

2. Non-linear response: The assay's response to high CRP concentrations is non-linear, leading to inaccurate results.

3. Prozone and Hook Effects: Prozone Effect (High CRP Concentration in patient samples and Hook Effect (Excess Anti CRP Antibody in reagent formulations) underestimate or fail to measure the true concentration of CRP

Implications of failed recovery of high CRP concentrations:

1. Diagnostic Delays: Inaccurate CRP results can hinder timely diagnosis of severe inflammatory or infectious conditions.

2. Insufficient Treatment: Underestimating CRP levels may lead to inadequate treatment, negatively impacting patient outcomes.

3. Misclassification of Disease Severity: Patients with high CRP levels may be incorrectly classified as having mild or moderate disease, influencing treatment decisions.

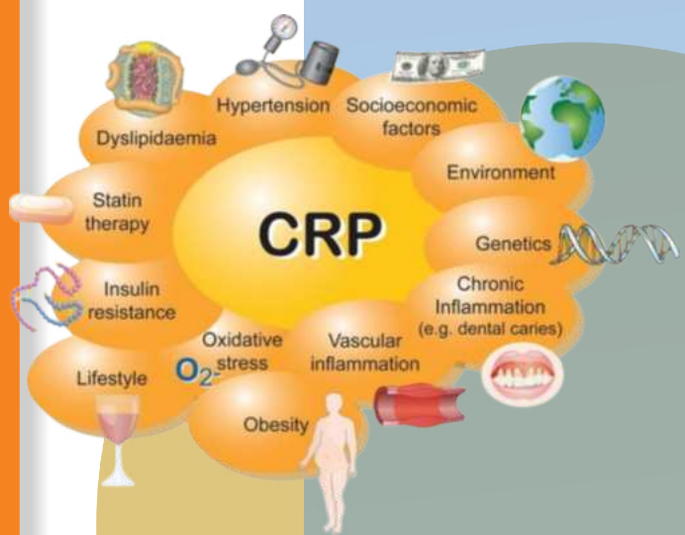
4. Diminished Biomarker Utility: Assays with poor linearity can reduce the effectiveness of CRP as a biomarker, limiting its ability to monitor disease activity.

5. Inaccurate Risk Stratification: Incorrect CRP measurements can lead to flawed assessments of cardiovascular disease risk.

6. Compromised Research Integrity: Inaccurate CRP measurements can undermine the validity of research studies and clinical trials.

7. Patient Safety Concerns: Inaccurate results can harm patients, particularly in critical care situations where prompt intervention is essential.

8. Erosion of Clinical Confidence: Assays with poor performance can diminish trust in CRP testing, potentially reducing its utilization and leading to missed diagnostic opportunities.



Non infection related conditions where CRP Levels are elevated

It is essential to use assays with high linearity to ensure accurate recovery of high CRP concentrations, supporting informed decision-making and optimal patient care.

Kivo Specialty Assays At a Glance

Specialty Liver Assays
Ammonia
Total Bile Acids
Adenosine Deaminase
5'-Nucleotidase
Prealbumin

Specialty Diabetes Assays
Hemoglobin A1C
Beta-Hydroxy Butyrate
Pyruvate
Lactate
Glycated Albumin
Glycated Serum Protein

Specialty Cardiovascular Assays
(Cardiac Risk Markers)
Lipoprotein (a)
Apolipoprotein A1
Apolipoprotein B
Lp-PLA2 (Plac Test)
hS-CRP

Specialty Renal Assays
Cystatin C
Microalbumin
ACR(Albumin to Creatinine Ratio)

Specialty Electrolyte Assays
Lithium
Carbondioxide
Magnesium
Zinc
Copper

Anemia Panel Assays
Iron
TIBC
Ferritin
Transferrin

Specialty Inflammation Assays
Procalcitonin
Anti-CCP
CRP-Wide Range
Complement-C3
Complement-C4
Haptoglobin

Immunoglobulin Assays
Immunoglobulin A
Immunoglobulin M
Immunoglobulin G
Immunoglobulin E (Allergy Marker)

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