

CRP U-hs

UNIVERSAL AND HIGH SENSITIVE

CRP U-hs

CAT. NO. KIT SIZE

DiaSys offers reagent kits for manual use, for use on DiaSys respons® (full barcode), BioMajesty® JCA-BM6010/C (full barcode) and for use on other automated systems like Hitachi 911, Hitachi 917 (full barcode) and for Vitalab Selectra. Detailed information is available on our website or in our product catalogue.

CALIBRATOR SET FOR UNIVERSAL RANGE (5 LEVELS)

17040 99 10 059	5 x 1 mL	TruCal CRP U
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CONTROLS FOR UNIVERSAL RANGE

5 9600 99 10 045	3 x 2 mL	TruLab CRP Level 1
5 9610 99 10 045	3 x 2 mL	TruLab CRP Level 2
5 9500 99 10 046	3 x 1 mL	TruLab Protein Level 1
5 9510 99 10 046	3 x 1 mL	TruLab Protein Level 2

CALIBRATOR SET FOR HIGH SENSITIVE RANGE (5 LEVELS)

17080 99 10 059	5 x 1 mL	TruCal CRP hs
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CONTROLS FOR HIGH SENSITIVE RANGE

5 9730 99 10 046	3 x 1 mL	TruLab CRP hs Level 1
5 9740 99 10 046	3 x 1 mL	TruLab CRP hs Level 2



DiaSys

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THE ONE AND ONLY

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- :: One reagent for all your needs
- :: Dynamic range 0.3 – 350 mg/L
- :: High sensitive range 0.05 – 20 mg/L

DiaSys

Diagnostic Systems

CHOOSING QUALITY.

Clinical interpretation

C-reactive protein (CRP) is the best known among the acute-phase proteins, a group of proteins whose concentration increases in blood as a response to inflammatory disorders (acute-phase response). CRP is normally present in low concentration in blood of healthy individuals (< 5 mg/L). It is elevated in acute inflammatory processes associated with bacterial infections, post-operative conditions or tissue damage already after 6 hours reaching a peak at 48 hours. Measurement of CRP is used for detection of acute infection as well as for monitoring inflammatory processes also in acute rheumatic and gastrointestinal diseases. CRP testing is more sensitive and specific than the erythrocyte sedimentation rate (ESR) and the leukocyte count. Studies have shown that in apparently healthy subjects there is a direct correlation between CRP concentrations and the risk for developing coronary heart disease (CHD).

Reference ranges

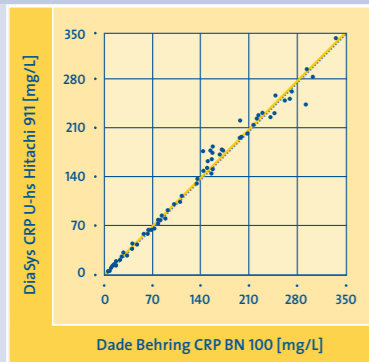
Adults < 5 mg/L

Values > 1 mg/L can indicate a risk for CHD

When CRP is used as an indicator for coronary heart disease increased values should be interpreted taking into consideration the clinical finding and previously determined values.

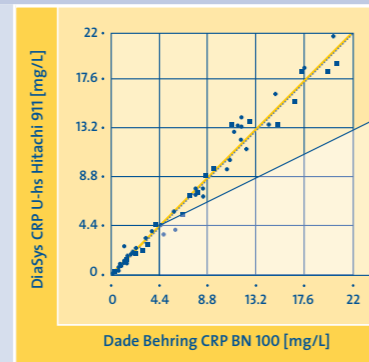
Comparison to nephelometric method

Universal range

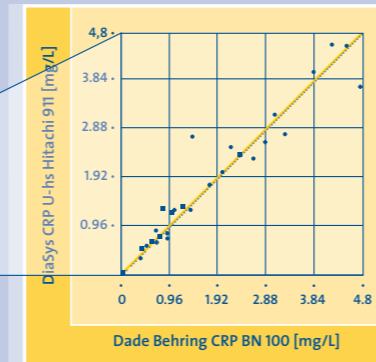


n = 104
 Passing/Bablok regression:
 $y = 0.998x - 0.627$ mg/L
 $r = 0.996$

High sensitive range



n = 59
 Passing/Bablok regression:
 $y = 0.992x + 0.010$ mg/L
 $r = 0.990$



n = 29
 Passing/Bablok regression:
 $y = 0.985x + 0.024$ mg/L
 $r = 0.966$

Excellent precision over the whole range (Hitachi 911)

Universal range

Intra-assay	Mean [mg/L]	SD [mg/L]	CV [%]
Sample 1	1.07	0.00	0.4
Sample 2	8.27	0.08	1.0
Sample 3	316	4.66	1.5

Inter-assay	Mean [mg/L]	SD [mg/L]	CV [%]
Sample 1	2.24	0.04	1.9
Sample 2	24.6	0.29	1.2
Sample 3	233	7.84	3.4

High sensitive range

Intra-assay	Mean [mg/L]	SD [mg/L]	CV [%]
Sample 1	0.40	0.01	2.6
Sample 2	1.20	0.02	1.3
Sample 3	17.5	0.48	2.7

Inter-assay	Mean [mg/L]	SD [mg/L]	CV [%]
Sample 1	0.68	0.01	1.3
Sample 2	2.37	0.02	1.0
Sample 3	10.7	0.10	1.0

DiaSys CRP U-hs

- ⌘ Two in one: Unique reagent for universal use
- ⌘ Wide dynamic range 0.3 – 350 mg/L
- ⌘ High sensitive range 0.05 – 20 mg/L
- ⌘ No dilution steps involved
- ⌘ High on board and calibration stability
- ⌘ Prozone safety up to 1000 mg/L
- ⌘ Excellent precision at lower end
- ⌘ No interferences from lipids, hemolysis, bilirubin and RF
- ⌘ Good comparison to nephelometric method
- ⌘ Reliable controls with 4 different levels
- ⌘ Controls for high sensitive range at 1 mg/L and 2 mg/L
- ⌘ Calibrators standardized to International Reference Material ERM®-DA470
- ⌘ Kit for automated systems – containers fitting on a variety of analyzers