

CRP Test Kit (Dry Fluorescence Immunoassay) User Manual

[PRODUCT NAME]

Crp Test Kit (Dry Fluorescence Immunoassay)

[PACKAGE SPECIFICATION]

5 Tests/Kit

25 Tests/Kit

[INTENDED USE]

CRP Test Kit (Dry Fluorescence Immunoassay) is intended for in-vitro quantitative measurement of CRP in human serum, plasma, whole blood and fingertip blood. This test is used for the detection and evaluation of infection, tissue injury and inflammation disorders.

[TEST PRINCIPLE]

CRP Test Kit (Dry Fluorescence Immunoassay) uses the principle of antigen-antibody reaction. The testing sample will migrate forward due to capillary action, then the CRP of the sample will combine with antibody which is attached to fluorescence microspheres. This marked complex is attached to the detection area of immobilized antibody and the other fluorescence microspheres are attached to the control area. When the test strip is inserted into the analyzer, the analyzer automatically scans two ribbons and detects the fluorescence intensity of the composite emission from the testing area and the control area. The ratio of the two fluorescence values was used to calculate the content of the detected substances.

[MAIN COMPONENTS]

1. Test strip in a foil pouch with desiccant
2. Sample diluent
3. QR code card for calibration
4. User manual
5. Plastic transfer pipette (Optional).
6. Alcohol pad (Optional).
7. Safety Blood Lancet (Optional).

Note: Do not mix or interchange different batches of kit.

[STORAGE AND VALIDITY]

Store the test kit at 4°C-30°C, with a shelf life of 24 months.
Test strip should be used within 1 hour once the foil pouch is opened.

[APPLICABLE DEVICES]

1. LS-1100 Dry Fluorescence Immunoassay Analyzer
2. LS-2100 Dry Fluorescence Immunoassay Analyzer
3. LS-4000 Dry Fluorescence Immunoassay Analyzer

[SAMPLE REQUIREMENT]

1. Used for human **serum, plasma, whole blood and fingertip blood**. Other bodily fluids and samples may not get the accurate result.
2. Whole blood and plasma sample can be anticoagulated with heparin and sodium citrate under aseptic conditions.
3. At room temperature, the test should be performed within 4 hours after the sample collection.
4. Serum or plasma sample can be stored at 2°C-8°C for 3 days at most. If more than 3 days, it should be stored at -20°C. It is suggested to use fresh

sample to test. Stale blood sample may not give an accurate result.

5. Whole blood sample can be stored at 2°C-8°C for 7 days at most, and must avoid hemolysis, otherwise the result is not accurate.
6. The sample before testing should be recovered to room temperature (15°C-30°C).
7. **Sample Volume: 5µL**

[TEST PROCEDURE]

1. Collect samples according to user manual.
2. Before the test, the sample, test strip and sample diluent should be recovered to room temperature (15°C-30°C).

For LS-1100

3. Perform QR code calibration when necessary. (Details refer to LS-1100 User Manual)
4. On the main interface of LS-1100, press the "Test" icon to enter the testing interface. Input patient information, sample information, doctor information when necessary. (Details refer to LS-1100 User Manual)
5. Remove test strip from sealed pouch and put it on a clean table, horizontally placed.
6. Using a pipette to deliver 5µL of sample into one tube of sample diluent. Mix gently and thoroughly. And then drop 100µL of mixed fluid into the sample port in the test strip.

7. Reaction Time: 3 minutes

For panel inside: Insert the test strip into the analyzer immediately after sample dispensing. Then click the "Test".

For panel outside: After reaction time 3 minutes has elapsed, insert the test strip into the analyzer and then click the "Test".

8. The result will be shown on the screen and printed automatically.

Notes: It is required to perform QR code calibration when starting to use one new batch of kit.

[REFERENCE INTERVAL]

Cut-Off Value: CRP ≤ 10mg/L; hs-CRP ≤ 3mg/L

CRP concentration was determined using samples obtained from 178 apparently healthy individuals. hs-CRP concentration was determined using samples obtained from 158 apparently healthy individuals. It is recommended that each laboratory establish its own reference range for the population it serves.

[INTERPRETATION OF RESULT]

1. If the test result of the sample is more than 200mg/L, the analyzer displays ">200mg/L", and if the result is less than 0.48mg/L, the analyzer displays "<0.48mg/L". Specific data can be exported through related software as needed. The results of regular CRP and hs-CRP are shown separately. When the test result is greater than 5 mg/L, the specific value is displayed in the CRP; when the test result is less than 5 mg/L, the specific value is displayed in the hs-CRP.
2. When the sample concentration exceeds the detection limit, the maximum dilution ratio is 3 times when the sample is diluted with calf serum or negative sample.

[LIMITATION]

1. This kit is only for the serum, plasma, whole blood and fingertip blood test.
2. The test results of this kit are only one of the diagnostic aids for the

clinicians.

3. The result of the test should be evaluated in the context of all the clinical and laboratory data available. In those instances where the laboratory results do not agree with the clinical evaluation, additional tests should be performed accordingly.

[PRODUCT PERFORMANCE]

1. Linearity Range: 0.5-200mg/L, $r \geq 0.990$.
2. Limit of Blank: $\leq 0.48\text{mg/L}$.
3. Accuracy: Verify with comparison experiments, the relative deviation is within $\pm 15\%$.
4. Within-Run Precision: $\leq 15\%$.
5. Between-Run Precision: $\leq 15\%$.
6. Hook Test: No hook effect with high concentration sample. The hook test was conducted with reference material exceeding the upper limit of linear range, and the detection result was greater than the upper limit of detection.

[PRECAUTIONS]

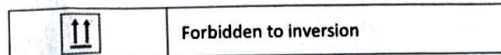
1. Only used for in vitro diagnostics.
2. Do not use the kit beyond the expiration date.
3. After the test strip is removed from the sealed pouch, it should be tested as soon as possible to avoid excessive time in the air, resulting in dampness.
4. Do not reuse the test strip.
5. The damaged test strip or package cannot be used.
6. Do not mix the components of different kits.

[REFERENCES]

1. Zhao heping, xiao qunfeng. Quantitative determination of c-reactive protein. Journal of practical medicine, 2006, 13 (21):3908.
2. Yang Zhenxiu. Detection of c-reactive protein. Shanghai journal of medical examinations, 1999, 14 (5):261-263.

[SYMBOL DESCRIPTION]

	For in vitro diagnostic use only
	Catalog number
	Manufacturer
	Lot number
	EU Authorized Representative
	Date of Manufacture
	Use by date
	Consult instructions for use
	Store at 4°C-30°C
	Contents Sufficient for < n > Tests
	Do not reuse
	Keep away from sunlight
	Fragile handle with care
	Keep dry



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Production date and expiration see the label.