





- Note:**
- Please update the standard curve with the barcode on the R1 cuvette if a new lot test kit is to be used.
  - The capillary of the R2 should be fully filled.

**Step 2 Testing**

**4a** Insert the R1 into test channel of analyzer.

**4b** The analyzer will mix the sample from R2 capillary with R1 automatically.

**4c** The analyzer will mix the R2 and R1 automatically.

**4d** The analyzer will test and print the results automatically.

### Calibration

The calibration values for the different lots of the kits are stored on the the two-dimensional code on the cuvette. Before test the new lot of kits, the instrument automatically scan the two-dimensional code on the cup to obtain the corresponding calibration curve during testing.

### Quality control

3- level calibration system guarantee the results' reliability for each lot of test kits, including the instrument calibration, remote reagent calibration and the third party calibration.

The third party calibration applicable for:

1. The daily indoor quality control test.
2. New lots of reagent.
3. New operator training.
4. The results can not match the clinical symptoms.
5. The first use of the reagent.

If still can not be calibrated, contact the manufacture for further technical support.

### Reference Value

<100pg/mL

Recommended that each laboratory establish its own reference range.

### Interpretation

The test results of this reagent are only for clinical reference. the clinical diagnosis and treatment of patients should be

considered in combination with their symptoms / signs, medical history, other laboratory tests and treatment responses.

### Limitations

- 1.This result is for clinical reference only; comprehensive consideration should be combined with the clinical management of patients with symptoms / signs, medical history, other laboratory tests and treatment response.
- 2.When hemoglobin $\leq$ 4g/L, triglyceride $\leq$ 12.88mmol/L, or bilirubin $\leq$ 253 $\mu$ mol/L, it has no interference to this determination.
- 3.The sample for extended periods may lead to differences in test results.

### Performance Characteristics

- 1.Linearity range: 15pg/mL ~ 5000pg/mL, $r\geq$ 0.990
2. Detection limit:  $\leq$ 10pg/mL

The limit of detection means the lowest detectable analyte level that can distinguish the concentration. Calculate based on the minimum standard above the two standard deviation of the data ( Blank table, 1+2SD, within-run precision, n=20).

#### 3. Precision

Test the control material by BNP Test Kit 2 times per day for 20 days (n=80) according to EP5-A2 of CLSI.

The data as below:

HP-083/4-II POCT Immunoassay System					
Sample	Mean pg/mL	Within-Run		Between-Run	
		S.D.	%C.V.	S.D.	%C.V.
Control 1	81.8	3.44	4.2	4.17	5.1
Control 3	1045.3	39.72	3.8	49.13	4.7

#### b.

HP-AFS/3 Automatic Immunoassay System					
Sample	Mean pg/mL	Within-Run		Between-Run	
		S.D.	%C.V.	S.D.	%C.V.
Control 1	82.0	3.94	4.8	4.2	5.1
Control 3	1059.8	56.17	5.3	62.53	5.9

#### c.

HP-AFS/1 Automatic Immunoassay System					
Sample	Mean pg/mL	Within-Run		Between-Run	
		S.D.	%C.V.	S.D.	%C.V.
Control 1	83.5	3.92	4.7	4.09	4.9
Control 3	1035.7	42.46	4.1	46.61	4.5

#### 4.Methodology comparison

Compared to Hitachi 7100 BNP TIA(x) by test the same samples, the relative data as below:

HP-AFS/3 Automatic Immunoassay System				
Site No.	Sample Type	No.of Assays	Regression Line	Coefficient correlation
1	Serum	50	Y= 1.05X-0.52	0.95

The concentration of sample is about 16pg/mL-4985pg/mL.

### Precautions

#### ⚠ Attention:

Only for in vitro diagnostic.

Only for professional use.

All samples and reactive wastes are treated as sources of infection.

Do not use the kits beyond shelf life.

Do not mix different batches of reagents.

#### ⚠ Warning:

To avoid error, do not forced to take out the cuvette from the device. Follow the device operation manual strictly, If the problem cannot be solved, contact the manufacturer for further technical support.

### SYMBOLS USED ON LABELS

Symbol	Usage	Symbol	Usage
	Use-By date		Do not freeze
	Batch code		Biological risks
	Manufacturer		Do Not Reuse
	Temperature Limit		
	Contains sufficient for <n> tests		
	Do not use if package is damaged		
	Consult Instructions for use		
	Keep Away from Sunlight		
	In Vitro Diagnostic Medical device		
	Authorized Representative in the European Community		

### References

Shang Hong, Wang Liu three, Shen Ziyu and so on. National Clinical Laboratory Practice (Fourth Edition) [M] Beijing: People's Medical Publishing House,2015:412-413.

### Approval Date&Revision Date

Approval Date: Feb 4, 2021

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尺寸:24\*25cm展开尺寸,横向三折页再垂直方向两次对折