

# STANDARD F NT-proBNP FIA

STANDARD™ NT-proBNP FIA is a quantitative test for the determination of the N-terminal brain-type natriuretic peptide (NT-proBNP) in human serum and whole blood(EDTA) using the fluorescent immunoassay.

- Early diagnosis of Acute Heart Failure
- Risk stratification of Heart Failure
- Useful tool to guide referral of chronic Heart Failure
- Significant cost savings due to shorter stays in the ED



## Product Specification

<b>Introduction</b>	Quantitative measurement of the NT-proBNP for diagnosis of heart failure
<b>Sample type</b>	Whole blood(EDTA) and Serum
<b>Sample volume</b>	100µl
<b>Measurement range</b>	50 – 25,000 pg/mL
<b>Measuring time</b>	15mins (S/P), 20mins (WB)
<b>Reference range</b>	<ul style="list-style-type: none"> <li>• Acute HF Rule-out : &lt;300 pg/mL</li> <li>• Symptomatic chronic HF Rule-out : &lt;125 pg/mL (&lt;75 yrs) &lt;450 pg/mL (≥ 75 yrs)</li> </ul>
<b>Storage condition</b>	Room temperature (2 – 30°C / 36 - 86°F)

## Ordering Information

Category	Product	Pack Size	CAT No.
Cardiovascular Disease	STANDARD F NT-proBNP FIA	20 Tests	10NTP10B
	STANDARD F NT-proBNP Control	LV X 10 / LV2 X 10	10NTPC10

### Test procedure

- 1 Insert test device into the STANDARD F Analyzer.
- 2 Collect 100µl of sample to the black-line of the disposable dropper.
- 3 Mix sample and buffer 2-3 times, and collect 100µl of sample mixture to the black-line.
- 4 Apply the sample mixture into the sample well, and immediately press the START button.

### Result Interpretation

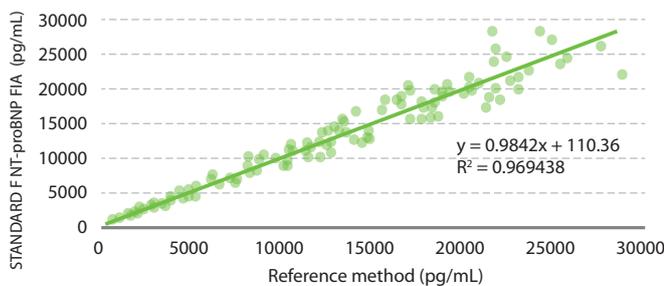
-In Emergency room, NT-proBNP is useful for the triage of patients with acute dyspnea and suspected acute heart failure.

Rule-out	Gray zone	Age-adjusted cut-off	Confirmation						
<300 pg/mL	↔	<table border="1"> <tr> <td>&lt;50 yrs</td> <td>&gt; 450</td> </tr> <tr> <td>50-75 yrs</td> <td>&gt; 900</td> </tr> <tr> <td>&gt;75 yrs</td> <td>&gt; 1,800</td> </tr> </table>	<50 yrs	> 450	50-75 yrs	> 900	>75 yrs	> 1,800	<10,000 pg/mL
<50 yrs	> 450								
50-75 yrs	> 900								
>75 yrs	> 1,800								
HF unlikely	HF Possible	HF Likely	HF very likely and severe						

-In primary care, NT-proBNP is useful to monitor the patients with chronic heart failure because it excludes suspected left ventricular systolic dysfunction.

Age	NT-proBNP (pg/mL)	Interpretation
• <75 yrs • ≥75 yrs	• <125 • <450	Heart Failure Unlikely
• <75 yrs • ≥75 yrs	• ≥ 125 • ≥ 450	Left ventricular dysfunction possible

### Method Comparison



Reference method vs. STANDARD F NT-proBNP FIA	
Correlation vs. Roche cobas	Y = 0.9842x + 110.36 R <sup>2</sup> = 0.9694 n = 180
CV%	QCL = 11.3% QCM = 11.2% QCH = 11.3%
Diff(%)	Within 15%