

**Analytical Characteristics of Commercial MR-proANP, BNP and NT-proBNP Assays
as per the manufacturer**

Assay	Capture antibody	Detection antibody	Standard material	FDA Cleared-yes/no/claim
BNP				
Abbott Architect, AxSYM iSTAT	NH ₂ terminus and part of the ring structure (Scios), murine monoclonal AB, aa 5-13	COOH terminus, murine monoclonal AB, aa 26-32	Synthetic BNP 32	Assist in diagnosis of HF; Assess severity of disease
Alere * Triage BNP	NH ₂ terminus and part of the ring structure (Scios), murine monoclonal AB, aa 5-13	BNP (Biosite), murine Omniconal AB, epitope not characterized	Recombinant BNP	Aid in diagnosis and severity assessment of HF; Risk stratification of patients with ACS and HF FDA Cleared
Beckman Coulter * Access, Access 2, DxL	BNP (Biosite), murine Omniconal AB, epitope not characterized	NH ₂ terminus and part of the ring structure (Scios), murine monoclonal AB, aa 5-13	Recombinant BNP	Diagnosis HF; Assess severity HF; Risk ACS; Risk HF
Siemens (Bayer) ACS 180, Advia Centaur, Advia Centaur CP	COOH terminus (BC-203) (Shionogi), murine monoclonal AB, aa 27-32	Ring structure (KY-hBNP-II) (Shionogi), murine monoclonal AB	Synthetic BNP	Aid in diagnosis and assessment of severity of HF; Predict survival and likelihood of future HF in ACS patients
Siemens (Dade Behring) Dimension VISTA, Dimension ExL	Ring structure (KY-hBNP-II) murine monoclonal AB, aa 14-21	COOH terminus (BC-203), murine monoclonal AB, aa 27-32	Synthetic BNP 32	Aid in diagnosis and assessment of severity of HF; Predict survival & likelihood of future HF in ACS patients Pending FDA clearance
Shionogi	COOH terminus (BC-203), murine monoclonal AB, aa 27-32	Ring structure (KY-hBNP-II), murine monoclonal AB	Synthetic BNP	Not FDA Cleared

1-76 NT-proBNP				
Alere Triage NT-proBNP	murine monoclonal AB, aa 27-31	sheep monoclonal AB, aa 42 -46	Synthetic NT- proBNP 1-76	Aid in diagnosis of HF; Risk stratification of patients with ACS and HF; Assessment of increased risk of cardiovascular events and mortality in patients at risk for HF who have stable CAD Not currently available in the US
bioMerieux VIDAS	NH ₂ terminus polyclonal sheep AB, aa 1-21	Central molecule, polyclonal sheep AB, aa 39-50	Synthetic NT- proBNP 1-76	Diagnosis HF
Mitsubishi Chemical PATHFAST	NH ₂ terminus polyclonal sheep AB, aa 1-2	Central molecule, polyclonal sheep AB, aa 39-50	Synthetic NT- proBNP 1-76	Aid diagnosis of CHF; Assess severity CHF; Risk stratification in ACS and stable CAD
Nanogen LifeSign DXpress Reader	Monoclonal (mouse) and polyclonal (goat) Abs	Polyclonal sheep AB	Synthetic NT- proBNP 1-76	Diagnosis HF
Ortho Clinical Diagnostics Vitros Eci	NH ₂ terminus polyclonal sheep AB, aa 1-21	Central molecule, polyclonal sheep AB, aa 39-50	Synthetic NT- proBNP 1-76	Aid diagnosis of CHF; Risk stratification of ACS and CHF; Risk assessment of CV events and mortality in patients at risk for HF with stable CAD; Assess severity in HF
Response Biomedical RAMP	murine monoclonal AB, aa 27-31	Central molecule, polyclonal sheep AB, aa 39-50	Synthetic NT- proBNP 1-76	Diagnosis HF; Assess severity HF
Roche NT-proBNP I Elecsys, E170	NH ₂ terminus polyclonal sheep AB, aa 1-21	Central molecule, polyclonal sheep AB, aa 39-50	Synthetic NT- proBNP 1-76	Diagnosis HF; Assessment severity HF; Risk ACS; Risk HF;
NT-proBNP II Elecsys, E170	murine monoclonal AB, aa 27-31	sheep monoclonal AB, aa 42 -46	Synthetic NT- proBNP 1-76	Treatment monitoring in LVD

Siemens (Dade Behring) Dimension RxL, Stratus CS, Dimension VISTA, Dimension EXL with LM	NH ₂ terminus monoclonal sheep AB, aa 22-28	Central molecule, Sheep monoclonal AB, aa 42-46	Synthetic NT- proBNP 1-76	Aid in the diagnosis of CHF and assessment of severity; Risk stratification of patients with ACS and HF
Siemens (DPC) Immulite 1000, 2000 2500	NH ₂ terminus polyclonal sheep AB, aa 1-21	Central molecule, polyclonal sheep AB, aa 39-50	Synthetic NT- proBNP 1-76	Not FDA Cleared
MR-proANP				
Thermo Fisher Scientific KRYPTOR	Polyclonal sheep AB, aa 50-72 of NT-proANP	Monoclonal rat AB, aa 73-90 of NT-proANP	Synthetic NT- proANP 50-90	Not FDA cleared

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CHF, congestive heart failure; ACS acute coronary syndrome; CV cardiovascular; CAD coronary artery disease; LVD left ventricular dysfunction; aa, amino acid; AB antibody; MR-proANP, midregional pro-atrial natriuretic peptide; N/A not available

*Both the Triage and Beckman systems use the same two antibodies but due to their different assay formats designation of the monoclonal and omnichlonal antibodies as capture and detection antibody is not absolute. Neither of the assay systems has changed since their original release; rather the previous table showed the incorrect antibody designations.