**NP assays from Manufactures that have both central laboratory instrument and point of care testing**

**(adapted from v042021 of the IFCC C-CB list of the BNP, NT-proBNP, and MR-proANP Assays: Analytical Characteristics Designated by Manufacturer)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Company/Platform/**  **Assay** | **LoD**  **(ng/L)** | **%CV**  **near LoD or LoQ**  **(Conc, ng/L)** | **Upper Reference Limit (URL); Age, Conc**  **(ng/L)** | **%CV at URL** | **Reference Intervals by Sex (ng/L)** | **Reference Intervals by Age/Sex, N, Median Conc (ng/L)** | **Specimen Type** | **Capture Antibody** | **Detection Antibody** | **Standard Material** | **POC** | **Package Insert: Version Date** |
| Abbott /Alinity i systems/ Alinity i BNP | 1.7 | LoQ ≤20 ng/L (20% CV) | 100 | 4.2% | Female Non-HF  Median: 26  Male non-HF  Median: 14 | Female Non-HF by age range:  <45y n=98 median=23  45-54y n=75 median=23  55-64y n=77 median=37  65-74 n=133 median=23  >75y n=82 median=25  Male Non-HF by age range:  <45y n=107 median=12  45-54y n=71 median=1  55-64y n=94 median=17  65-74y n=115 median=21  >75y n=38 median=37 | EDTA plasma | Anti-BNP (106.3) mouse monoclonal | Anti-BNP (BC203) mouse monoclonal | Synthetic Peptide | No | 704-328\_R04 OUS only March 2018 |
| Abbott /Alinity i systems/ Alere NT-proBNP for Alinity i | 7.9 | LoQ ≤50.0 ng/L (20% CV) | <75y: 125  ≥75y: 450 | NP | NP | Non-HF by age range:  <45y n=112 median=43.7  45-54y n=114 median=57.9  55-64y n=137 median=74.8  65-74y n=80 median=161.0  >75y n=77 median=345.7 | Serum (SST), plasma (K2/K3 EDTA, Li-Hep) | NP | NP | NP | No | ABBL535R02 OUS only May 2018 |
| Abbott /ARCHITECT i systems/ ARCHITECT BNP | ≤10 | NP | 100 | ≤12% | NP | Non-Heart Failure  n = 890  (465 F, 425 M)  <45 – 75+y | EDTA plasma | Anti-BNP (106.3) mouse monoclonal | Anti-BNP (BC203) mouse monoclonal | NP | No | World Wide excluding Japan / 608-03310/15/R05 revised Nov. 2015 |
| Abbott/i-STAT/BNP  Analytical data from CTI sheet and internally | NP | NP | 95th%: 50 | NP | NP | 165 | EDTA whole blood or Plasma | Shinogi: BC2032 | Diatec Mouse anti-human BNP clone: 106:3sc1283 | Synthetic BNP (Peptide International, Louisville, KY, Cat# 4212v) | Yes | US, Rev. Date:  01-Jul-13 |
| Roche/proBNP II/  Modular E170/e411/e601/e602  NT-proBNP | 5 | NP | 97.5th: 196 | e411: 2.6%  E170/  e601/e602: 2.7% | Male 97.5th  169 ng/L  Female 97.5th  254 ng/L | n = 2264  (838 F, 1426 M)  18 – 90y | Serum,  plasma  (Li-,NH4‑  Hep; K2,K3 EDTA) | Murine monoclonal AB 27-31 | Sheep monoclonal AB 42-46 | Synthetic NT-proBNP 1-76 | No | Europe |
| Roche/proBNP II Elecsys STAT e601/e602  NT-proBNP | 5 | NP | 97.5th: 196 | e601/e602: 2.5% | Male 97.5th:  169 ng/L  Female 97.5th  254 ng/L | n = 2264  (838 F, 1426 M)  18 – 90y | Serum,  plasma  (Li-,NH4‑  Hep; K2,K3 EDTA) | Murine monoclonal AB 27-31 | Sheep monoclonal AB 42-46 | Synthetic NT-proBNP 1-76 | No | Europe |
| Roche Elecsys proBNP II/ e801/18 min.; 9 min.  NT-proBNP | 5 | NP | 97.5th: 196 | 18 min: 2.6%;  9 min: 1.9% | Male 97.5th  169 ng/L  Female 97.5th  254 ng/L | n = 2264  (838 F, 1426 M)  18 – 90y | Serum,  plasma  (Li-,NH4‑ Hep; K2,K3 EDTA) | Murine monoclonal AB 27-31 | Sheep monoclonal AB 42-46 | Synthetic NT-proBNP 1-76 | No | Europe |
| Roche proBNP II Elecsys 2010/Modular E170/e411/e601/e602  NT-proBNP | 5 | NP | 95th  <75y: 225  ≥75y: 718 | e411/2010  2.6% at 126 ng/L  1.8% at 2410 ng/L  E170/  e601/e602: 2.7% | Male 95th  <75y: 169  ≥75y: 852  Female 95th  <75y: 252  ≥75y: 624 | n = 1411  (800 F, 611 M)  <45 and ≥75y | Serum,  plasma  (Li-,NH4‑  Hep; K2,K3 EDTA) | Murine monoclonal AB 27-31 | Sheep monoclonal AB 42-46 | Synthetic NT-proBNP 1-76 | No | USA |
| Roche proBNP II Elecsys STAT e601/e602  NT-proBNP | 5 | NP | 95th  <75y: 225  ≥75y: 718 | e601/e602 2.5% at 142 ng/L  2.5% at 935 ng/L | Male 95th  <75y: 169  ≥75y: 852  Female 95th  <75y: 252  ≥75y: 624 | n = 1411  (800 F, 611 M)  <45y and ≥75 y | Serum,  plasma  (Li-,NH4‑  Hep; K2,K3 EDTA) | Murine monoclonal AB 27-31 | Sheep monoclonal AB 42-46 | Synthetic NT-proBNP 1-76 | No | USA |
| Roche  CARDIAC NT-proBNP  cobas h232 | 6\* | NP | 97.5th: 196\* | <15% \* | Male 97.5th  169 ng/L  Female 97.5th  254 ng/L\* | n = 2264  (838 F, 1426 M)  18-90y\* | Heparinized venous blood\* | Sheep polyclonal | Murine monoclonal | Synthetic NT-proBNP 1-76 | Yes | EU, 2013-10 |
| Siemens  ATELLICA IM  NT-proBNP | 20 | 20% CV at LoQ of 18 | <75y: 125  ≥75y: 450 | <4% | NP | Males, n = 348  <55y: 35 ng/L  55-64y: 65 ng/L  65-74y: 73 ng/L  ≥75y: 119 ng/L  Females, n = 203  <55y: 43 ng/L  55-64y: 78 ng/L  65-74y: 52 ng/L  ≥75y: 163 ng/L | Serum, plasma  (Li Hep  EDTA) | Sheep monoclonal | Sheep monoclonal | NP | No | CE 11200584\_04 2019-05 |
| Siemens  ATELLICA IM  BNP | 2.4 | 20% CV at LoQ of 1.5 | 100 | <3% | NP | Overall, n = 1521  <45y: 9 ng/L  45-54y: 10 ng/L  55-64y: 14 ng/L  65-74y: 22 ng/L  ≥75y: 44 ng/L | EDTA Plasma | Monoclonal  c-terminal | Monoclonal ring structure | NP | No | CE 10995281\_04, 2019-07 |
| Siemens  ADVIA Centaur XP/XPT  NT-proBNP | 20 | 20% CV at LoQ of <33 | <75y: 125  ≥75y: 450 | <5.0% | NP | Males, n = 348  <55y: 35 ng/L  55-64y: 64 ng/L  65-74y: 73 ng/L  ≥75y: 119 ng/L  Females, n = 203  <55y: 43 ng/L  55-64y: 78 ng/L  65-74y: 52 ng/L  ≥75y: 163 ng/L | Serum, plasma  (Li Hep  EDTA) | Sheep monoclonal | Sheep monoclonal | NP | No | CE 10998230\_E, 2019-03 |
| Siemens  ADVIA Centaur CP  NT-proBNP | 14 | 20% CV at LoQ of 14 | <75y: 125  ≥75y: 450 | ≤3.0% | NP | Males, n = 348  <55y: 35 ng/L  55-64y: 64 ng/L  65-74y: 73 ng/L  ≥75y: 119 ng/L  Females, n = 203  <55y: 43 ng/L  55-64y: 78 ng/L  65-74y: 52 ng/L  ≥75y: 163 ng/L | Serum, plasma  (Li Hep  EDTA) | Sheep monoclonal | Sheep monoclonal | NP | No | CE 11200078\_D, 2019-03 |
| Siemens  ADVIA Centaur CP/XP/XPT  BNP | <2 | LoQ 2.5 | 100 | <5% | NP | Overall, n = 1521  <45y: 9 ng/L  45-54y: 10 ng/L  55-64y: 14 ng/L  65-74y: 22 ng/L  ≥75y: 44 ng/L | EDTA Plasma | Monoclonal  c-terminal | Monoclonal ring structure | NP | No | CE 10629823\_W  2019-03 |
| Siemens DIMENSION VISTA PBNP (LOCI)  NT-proBNP | 0.8 | LoQ <30 | <75y: 125  ≥75y: 450 | <4.7% | NP | Males, n = 155  <55y: 16 ng/L  55-64y: 25 ng/L  65-74y: 123 ng/L  ≥75y: 173 ng/L  Females, n = 163  <55y: 39 ng/L  55-64y: 28 ng/L  65-74y: 87 ng/L  ≥75y: 167 ng/L | Serum, plasma  (Li hep, Na hep, EDTA) | Sheep  Monoclonal  (N-terminal) | Sheep  monoclonal | NP | No | CE  2019-06-07 F PN 10868020 |
| Siemens  Dimension VISTA  BNP (LOCI) (OUS only) | 3 | LoQ 10 | 100 | 3.1% | NP | Males, n = 736  <45y: 5 ng/L  45-54y: 7 ng/L  55-64y: 11 ng/L  65-74y: 17 ng/L  ≥75y: 26 ng/L  Females, n = 785  <45y: 10 ng/L  45-54y: 14 ng/L  55-64y: 19 ng/L  65-74y: 25 ng/L  ≥75y: 54 ng/L | EDTA Plasma | Monoclonal c-terminal (27-31) | Monoclonal ring structure (14-21) | Synthetic  human BNP (amino acid 77–108) | No | CE  2019-06-07 F PN 10868025 |
| Siemens DIMENSION RXL PBNP (HM)  NT-proBNP | 10 | LoQ <30 | <75y: 125  ≥75y: 450 | <5.6%  <5.1% | NP | Males, n =145  <55y: 13 ng/L  55-64y: 13 ng/L  65-74y: 76 ng/L  ≥75y: 111 ng/L  Females, n = 163  <55y: 23 ng/L  55-64y: 18 ng/L  65-74y: 59 ng/L  ≥75y: 131 ng/L | Serum,  plasma  (Li hep, Na hep, EDTA) | Sheep  Monoclonal  (N-terminal) | Sheep  monoclonal | NP | No | CE  2019-04-08 H PN 755423.002 |
| Siemens  DIMENSION EXL NTP (LOCI)  NT-proBNP | 2 | LoQ <30 | <75y: 125  ≥75y: 450 | <8.9%  <10% | NP | Males, n = 155  <55y: 16 ng/L  55-64y: 25 ng/L  65-74y: 123 ng/L  ≥75y: 173 ng/L  Females, n = 163  <55y: 39 ng/L  55-64y: 28 ng/L  65-74y: 87 ng/L  ≥75y: 167 ng/L | Serum,  plasma  (Li hep, Na hep, EDTA) | Sheep  Monoclonal  (N-terminal) | Sheep  monoclonal | NP | No | CE  2019-05-30 E PN 741623.001 |
| Siemens IMMULITE/ IMMULITE 1000 Turbo  NT-proBNP | 15 | 14.9% at 52 ng/L | <75y: 125  ≥75y: 450 | <10%  <10% | NP | Overall, n = 217  <75y: 28 ng/L  ≥75y: 172 ng/L  95th percentile:  <75y: 110 ng/L  ≥75y: 589 ng/L | Heparin  plasma | Sheep  polyclonal | Sheep  polyclonal | NP | No | CE  PINLSKNT-3[20] 2015-07-16 |
| Siemens IMMULITE/ IMMULITE 2000  NT-proBNP | 10 | 6.4% at 35 ng/L | <75y: 125  ≥75y: 450 | <5%  <5% | NP | Overall, n = 217  <75y: 28 ng/L  ≥75y: 172 ng/L  95th percentile:  <75y: 110 ng/L  ≥75y: 589 ng/L | Heparin  plasma | Sheep polyclonal | Sheep  polyclonal | NP | No | CE  PIL2KNT-16,2015-06-17 |
| Siemens/Stratus CS  Acute care pBNP test Pack  NT-proBNP | ≤15 | LoQ (20%CV) at 50 ng/L | <75y: 125  ≥75y: 450 | 5.3%  <3% | NP | Males, n = 145  <55y: 15 ng/L  55-64y: 32 ng/L  65-74y: 116 ng/L  ≥75y: 162 ng/L  Females, n = 163  <55y: 36 ng/L  55-64y: 16 ng/L  65-74y: 81 ng/L  ≥75y: 167 ng/L | Blood sample, Na or Li heparin | Sheep  monoclonal | Sheep  monoclonal | NP | Yes | CE  2008-10-30 |

LoD, limit of detection; LoB, limit of blank; LoQ, limit of quantitation; NP, not provided; M, male, F, female; Conc, concentration; POC, point of care; AB, antibody.