

BNP, NT-proBNP, and MR-proANP Assays: Analytical Characteristics Designated by Manufacturer
IFCC Committee on Clinical Applications of Cardiac Bio-Markers (C-CB) v082025

Company	Platform	Assay	Point-of-care assay	LoD (ng/L)	LoQ (ng/L)	Measuring interval (ng/L)	Overall 97.5 th percentile (or by age) (ng/L)	%CV at reference interval	97.5 th percentile by sex (ng/L)	97.5 th percentile by age/sex (ng/L)	Specimen type	Capture antibody	Detection antibody	Standard material	Package Insert, version date	Other references
Abbott	Alinity	BNP (OUS)	No	1.7	5.4	10-5000	<u>95th percentile</u> n = 890 Overall: 135 <45y: 85 45-54y: 87 55-64y: 119 65-74y: 160 >75y: 254	4.2%	<u>95th percentile</u> Males, n = 425 Overall: 104 Females, n = 465 Overall: 150	<u>95th percentile</u> Females, n =465: <45y:89 45-54y:111 55-64y:155 65-74:159 >75y:266 Males, n = 425: <45y: 73 45-54y: 40 55-64y: 80 65-74y: 150 >75y: 121	Plasma (EDTA)	Anti-BNP (106.3) mouse monoclonal ¹	Anti-BNP (BC203) mouse monoclonal ¹	Synthetic peptide ¹	OUS (2018)	/
	Alinity	NT-proBNP (OUS)	No	7.9	8.3	8.3-35000	<u>95th percentile</u> n = 520 Overall: 1056.2 <45y: 181.7 45-54y: 273.5 55-64y: 464.2 65-74y: 1415.5 >75y: 2164.4	3.5%	NP	NP	Serum, plasma (EDTA, heparin)	NP	NP	NP	OUS (2023)	/
	ARCHITECT	BNP	No	≤10 ¹	NP	10-5000	<u>95th percentile</u> n = 890 Overall: 135 <45y: 85 45-54y: 87 55-64y: 119 65-74y: 160 >75y: 254	6.7%	<u>95th percentile</u> Males, n = 425 Overall: 104 Females, n = 465 Overall: 150	<u>95th percentile</u> Females, n =465: <45y:89 45-54y:111 55-64y:155 65-74:159 >75y:266 Males, n = 425: <45y: 73 45-54y: 40 55-64y: 80 65-74y: 150 >75y: 121	Plasma (EDTA)	Anti-BNP (106.3) mouse monoclonal ¹	Anti-BNP (BC203) mouse monoclonal ¹	NP	WW except Japan (2018)	/
	ARCHITECT	NT-proBNP (OUS)	No	7.9	8.3	8.3-35000	<u>95th percentile</u> n = 520 Overall: 1056.2 <45y: 181.7 45-54y: 273.5 55-64y: 464.2 65-74y: 1415.5 >75y: 2164.4	3.5%	NP	NP	Serum, plasma (EDTA, heparin)	NP	NP	NP	OUS (2020)	/
Beckman Coulter	Dxl 9000	NT-proBNP (OUS)	Np	1.1	4.8	10-35000	n = 675 Overall: 358 <50: 162 50-75y: 311 ≥75y: 457	7.0%	Males, n = 306: Overall: 267 Females, n = 369: Overall: 370	Males, n = 306: Overall: 175 <50y: 103 50-7554y: 284 >75y: 434 Females, n = 369: <50y: 178 50-75y: 317 >75y: 457	Serum, plasma (EDTA, heparin)	Rabbit anti-human NT-proBNP monoclonal antibody	Human-mouse anti-NT-proBNP chimeric monoclonal antibody	NP	OUS (2024)	/

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Beckman Coulter	Dxl 9000	NT-proBNP (US)	Np	1.1	4.8	10-35000	n = 675 Overall: 358 <50: 162 50-75y: 311 ≥75y: 457	7.0%	Males, n = 306: Overall: 267 Females, n = 369: Overall: 370	Males, n = 306: Overall: 175 <50y: 103 50-75y: 284 >75y: 434 Females, n = 369: <50y: 178 50-75y: 317 >75y: 457	Serum, plasma (EDTA, heparin)	Rabbit anti-human NT-proBNP monoclonal antibody	Human-mouse anti-NT-proBNP chimeric monoclonal antibody	NP	US (2024)	/
	Access 2, UniCel Dxl	BNP (OUS)	No	3	5	3-5000	95 th percentile n = 1286 Overall: 73.5 <45: 39.6 45-54y: 64.5 55-64y: 76.1 65-74y: 84.7 ≥75y: 179.4	NP	95 th percentile Males, n = 610: Overall: 56.9 Females, n = 675: Overall: 84.2	95 th percentile Males, n = 610: <45: 23.8 45-54y: 39.0 55-64y: 72.4 65-74y: 62.7 ≥75y: 77.9 Females, n = 675: <45: 47.4 45-54y: 71.7 55-64y: 80.5 65-74y: 95.4 ≥75y: 179.5	Plasma (EDTA)	Mouse omniclonal anti-human Ab	Mouse monoclonal anti-human BNP Ab	NP	OUS (2024)	/
	Access 2, UniCel Dxl	BNP (US)	No	1	NP	1-5000	95 th percentile n = 1286 Overall: 73.5 <45: 39.6 45-54y: 64.5 55-64y: 76.1 65-74y: 84.7 ≥75y: 179.4	NP	95 th percentile Males, n = 610: Overall: 56.9 Females, n = 675: Overall: 84.2	95 th percentile Males, n = 610: <45: 23.8 45-54y: 39.0 55-64y: 72.4 65-74y: 62.7 ≥75y: 77.9 Females, n = 675: <45: 47.4 45-54y: 71.7 55-64y: 80.5 65-74y: 95.4 ≥75y: 179.5	Plasma (EDTA)	Mouse omniclonal anti-human Ab	Mouse monoclonal anti-human BNP Ab	NP	US (2024) OUS (2024)	/
Lifotronic	eCL8000, eCL8000i, eCL8000p, eCL8000x, eCL8600, eCL8600i, eCL8600p, eCL8800, eCL8800i, eCL8800p, eCL9000, eCL9600, eCL9900, eCL9900i	NT-proBNP STAT eCLIA (OUS)	No	5	5	5-35000	95 th percentile n = 621 18-44y: 96.16 45-54y: 122.2 55-64y: 204.4 65-74y: 290.2 ≥75y: 525	3.14%	NP	NP	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31	Sheep monoclonal AB 42-46	Recombinant NT-proBNP	OUS (2025)	/
	eCL8000, eCL8000i, eCL8000p, eCL8000x, eCL8600, eCL8600i, eCL8600p, eCL8800, eCL8800i, eCL8800p, eCL9000, eCL9600, eCL9900, eCL9900i	NT-proBNP eCLIA (OUS)	No	5	5	5-35000	95 th percentile n = 973 18-44y: 95.4 45-54y: 125.2 55-64y: 205.3 65-74y: 291.8 ≥75y: 521.6	3.14%	NP	NP	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31	Sheep monoclonal AB 42-46	Recombinant NT-proBNP	OUS (2025)	/

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Maccura	i9000, i8000, i6000, i1000, i1000L, i1000S, i820, i800	BNP (OUS)	No	2	2	2-5000	100	2.17%-2.37%	NP	NP	Plasma (EDTA)	Sheep anti-human BNP antibody	Sheep anti-human BNP antibody	Recombinant human B type diuretic peptide	OUS (2025) China (2024)	/
	i3000, i1000, i1000L, i1000S	NT-proBNP (OUS)	No	20	NP	25-30000	n = 491 Overall: 140 ≤60y: 140 60-74y: 320.9 ≥75y: 567.5	NP	NP	Males, n = 199: ≤60y: 141.5 60-74y: 299.1 >75y: 528.1 Females, n = 281: ≤45y: 140.1 60-74y: 330.1 >75y: 590.1	Serum, plasma (EDTA, heparin)	Mouse anti-NT-proBNP monoclonal antibody	Mouse anti-NT-proBNP monoclonal antibody	Recombined NT-proBNP antigen	OUS (2022) China (2023)	/
Mindray	CL-series	NT-proBNP (OUS)	No	10	30	<u>10-35000</u>	n = 2777 Overall: 245 <45y: 110 45-54y: 166 55-64y: 258 65-74y: 355 ≥75y: 726	3.79%	Males, n = 1332: Overall: 187 Females, n = 945: Overall: 281	Males, n = 1332: Overall: 175 <45y: 89.7 45-54y: 126 55-64y: 206 65-74y: 386 >75y: 522 Females, n = 945: Overall: 291 <45y: 132 45-54y: 229 55-64y: 262 65-74y: 297 >75y: 807	Serum, plasma (EDTA, heparin)	NP	NP	Recombinant proBNP	OUS (2023) China (2023)	/
QuidelOrtho	VITROS ECI/ECiQ	NT-proBNP II	No	0.49	20	20-30000	n = 756 Overall: 217	5.7%	NP	Males, n = 374: <50y: 125 50-75y: 299 >75y: 326 Females, n = 385: <50y: 95.3 50-75y: 221 >75y: 296	Serum, plasma (EDTA, heparin)	NP	NP	In-house reference calibrators	US (2022) OUS (2022)	/
	VITROS XT 7600	NT-proBNP II	No	0.49	20	20-30000	n = 756 Overall: 217	4.5%	NP	Males, n = 374: <50y: 125 50-75y: 299 >75y: 326 Females, n = 385: <50y: 95.3 50-75y: 221 >75y: 296	Serum, plasma (EDTA, heparin)	NP	NP	In-house reference calibrators	US (2022) OUS (2022)	/
	VITROS 5600	NT-proBNP II	No	0.49	20	20-30000	n = 756 Overall: 217	5.4%	NP	Males, n = 374: <50y: 125 50-75y: 299 >75y: 326 Females, n = 385: <50y: 95.3 50-75y: 221 >75y: 296	Serum, plasma (EDTA, heparin)	NP	NP	In-house reference calibrators	US (2022) OUS (2022)	/
	VITROS 3600	NT-proBNP II	No	0.49	20	20-30000	n = 756 Overall: 217	4.8%	NP	Males, n = 374: <50y: 125 50-75y: 299 >75y: 326 Females, n = 385: <50y: 95.3 50-75y: 221 >75y: 296	Serum, plasma (EDTA, heparin)	NP	NP	In-house reference calibrators	US (2022) OUS (2022)	/
	Triage	NT-proBNP POC (OUS)	Yes	20	48	20-35000	<75y: 125 ≥75y: 450	16.4%	NP	NP	Whole blood, plasma (EDTA)	NP	NP	Standardized with purified NT-proBNP	OUS (2018)	/

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QuidelOrtho	Triage	BNP POC (OUS)	Yes	5	NP	5-5000	100	9.9%	NP	NP	Whole blood, plasma (EDTA)	NP	NP	Standardized with purified NT-proBNP	OUS (2018)	/
	Triage	BNP Profiler SOB POC	Yes	5	NP	5-5000	<u>95th percentile</u> n = 1286 Overall: 73.5 <45y: 39.6 45-54y: 64.5 55-64y: 76.1 65-74y: 84.7 ≥75y: 179.4	8.1%	<u>95th percentile</u> Males, n = 610: 56.9 Females, n = 676: 84.2	<u>95th percentile</u> Males, n = 610: <45y: 23.8 45-54y: 39.0 55-64y: 72.4 65-74y: 62.7 ≥75y: 77.9 Females, n = 676: <45y: 47.4 45-54y: 71.7 55-64y: 80.5 65-74y: 95.4 ≥75y: 179.5	Whole blood, plasma (EDTA)	NP	NP	Standardized with purified BNP	US (2020) OUS (2020)	/
	Triage	BNP Cardio 2, Cardio 3 POC (OUS)	Yes	5	NP	5-5000	<u>95th percentile</u> n = 1286n = 1286 Overall: 73.5 <45y: 39.6 45-54y: 64.5 55-64y: 76.1 65-74y: 84.7 ≥75y: 179.4	6.7%	<u>95th percentile</u> Males, n = 610: Males, n = 610: 56.9 Females, n = 676: 84.2	<u>95th percentile</u> Males, n = 610: <45y: 23.8 45-54y: 39.0 55-64y: 72.4 65-74y: 62.7 ≥75y: 77.9 Females, n = 676: <45y: 47.4 45-54y: 71.7 55-64y: 80.5 65-74y: 95.4 ≥75y: 179.5	Whole blood, plasma (EDTA)	NP	NP	Standardized with purified BNP	OUS (2018)	/
PHC Corporation	PATHFAST	NT-proBNP (US)	Yes	5	15.0	15-30000	<u>95th percentile</u> n = 578 <45y: 163 45-54y: 229 55-64y: 467 65-74y: 688 ≥75y: 604	4.7%	NP	<u>95th percentile</u> Males, n = 254 <45y: 98.4 45-54y: 191 55-64y: 408 65-74y: 603 ≥75y: 500 Females, n = 324 <45y: 227 45-54y: 299 55-64y: 757 65-74y: 1994 ≥75y: 674	Whole blood (EDTA, heparin)	NH ₂ terminus polyclonal sheep AB, aa 1-21 ¹	Central molecule, polyclonal sheep AB, aa 39-50 ¹	Synthetic NT-proBNP 1-76	US (2023)	/
	PATHFAST	NT-proBNP (OUS)	Yes	5	10	15-3000	n = 130 Overall: 145	4.7%	NP	NP	Whole blood, plasma (EDTA, heparin)	NH ₂ terminus polyclonal sheep AB 1-21 ¹	Central molecule, polyclonal sheep AB 39-50 ¹	Synthetic NT-proBNP 1-76 ¹	WW except US and Japan (2024)	/
Radiometer	AQT90 FLEX	NT-proBNP	Yes	≤20	NP	70-35000	<u>95th percentile</u> Overall: 133	Plasma: 7.2%	NP	NP	Whole blood, plasma (EDTA, heparin)	NP	NP	NP	WW (2018)	/
RealMind Biotech	ACL2800, ACL2800S, MCL60, A6I	BNP (OUS)	No	1.00	5.00	1-7500	n = 320 Overall: 100.0	2.5%	NP	NP	Serum, whole blood, plasma (EDTA)	Mouse anti-BNP monoclonal antibody	Mouse anti-BNP monoclonal antibody	Recombinant BNP antigen	OUS (2025)	/
	ACL2800, ACL2800S, MCL60, A6I	NT-proBNP (OUS)	No	5.00	10.00	5-35000	n = 419 Overall: 125.0	2.5%	NP	NP	Whole blood (EDTA), serum, plasma (EDTA, heparin)	Mouse anti-NT-proBNP monoclonal antibody	Mouse anti-NT-proBNP monoclonal antibody	Recombinant NT-proBNP antigen	OUS (2025)	/

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Roche	Cobas e411	Elecsys proBNP II 18 min (NT-proBNP OUS)	No	10	50	10-35000	NP	5.7%	n = 4266 Males: 344 Females: 389	n = 4266 Males 35-44y: 115 45-54y: 173 55-64y: 386 65-74y: 879 Females <45y: 237 45-54y: 284 55-64y: 352 65-74y: 623	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31 ¹	Sheep monoclonal AB 42-46 ¹	Synthetic NT-proBNP 1-76	OUS (2024)	/
	Cobas e601, e602	Elecsys proBNP II 18 min (NT-proBNP OUS)	No	10	50	10-35000	NP	4.1%	n = 4266 Males: 344 Females: 389	n = 4266 Males 35-44y: 115 45-54y: 173 55-64y: 386 65-74y: 879 Females <45y: 237 45-54y: 284 55-64y: 352 65-74y: 623	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31 ¹	Sheep monoclonal AB 42-46 ¹	Synthetic NT-proBNP 1-76	OUS (2024)	/
	Cobas e411	Elecsys proBNP II 18 min (NT-proBNP US)	No	NP	36	36-35000	<u>95th percentile</u> n = 1411 <45y: 167 45-54y: 174 55-64y: 209 65-74y: 319 ≥75y: 718	5.7%	NP	<u>95th percentile</u> n = 1411 Males <45y: 92.6 45-54y: 138 55-64y: 177 65-74y: 229 ≥75y: 852 Females <45y: 178 45-54y: 192 55-64y: 226 65-74y: 353 ≥75y: 624	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31 ¹	Sheep monoclonal AB 42-46 ¹	Synthetic NT-proBNP 1-76	US (2024)	/
	Cobas e601, e602	Elecsys proBNP II 18 min (NT-proBNP US)	No	NP	36	36-35000	<u>95th percentile</u> n = 1411 <45y: 167 45-54y: 174 55-64y: 209 65-74y: 319 ≥75y: 718	4.1%	NP	<u>95th percentile</u> n = 1411 Males <45y: 92.6 45-54y: 138 55-64y: 177 65-74y: 229 ≥75y: 852 Females <45y: 178 45-54y: 192 55-64y: 226 65-74y: 353 ≥75y: 624	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31 ¹	Sheep monoclonal AB 42-46 ¹	Synthetic NT-proBNP 1-76	US (2024)	/
	Cobas e402, e801	Elecsys proBNP II 18 min (NT-proBNP US)	No	NP	36	36-35000	<u>95th percentile</u> n = 1411 <45y: 167 45-54y: 174 55-64y: 209 65-74y: 319 ≥75y: 718	3.4%	NP	<u>95th percentile</u> n = 1411 Males <45y: 92.6 45-54y: 138 55-64y: 177 65-74y: 229 ≥75y: 852 Females <45y: 178 45-54y: 192 55-64y: 226 65-74y: 353 ≥75y: 624 55-64y: 352 65-74y: 623	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31 ¹	Sheep monoclonal AB 42-46 ¹	Synthetic NT-proBNP 1-76	US (2024)	/

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Roche	Cobas e402, e801	Elecsys proBNP II 9 min (NT-proBNP US)	No	NP	36	36-35000	<u>95th percentile</u> n = 1411 <45y: 167 45-54y: 174 55-64y: 209 65-74y: 319 ≥75y: 718	3.1%	NP	<u>95th percentile</u> n = 1411 Males <45y: 92.6 45-54y: 138 55-64y: 177 65-74y: 229 ≥75y: 852 Females <45y: 178 45-54y: 192 55-64y: 226 65-74y: 353 ≥75y: 624 55-64y: 352 65-74y: 623	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31 ¹	Sheep monoclonal AB 42-46 ¹	Synthetic NT-proBNP 1-76	US (2024)	/
	Cobas e402, e801	Elecsys proBNP II 18 min (NT-proBNP US)	No	5	50	5-35000	<u>NP</u>	3.1%	<u>95th percentile</u> n = 4266 Males: 344 Females: 389	<u>95th percentile</u> n = 4266 Males 35-44y: 115 45-54y: 173 55-64y: 386 65-74y: 879 Females <45y: 237 45-54y: 284 55-64y: 352 65-74y: 623	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31 ¹	Sheep monoclonal AB 42-46 ¹	Synthetic NT-proBNP 1-76	US (2023)	/
	Cobas e402, e801	Elecsys proBNP II 9 min (NT-proBNP OUS)	No	5	50	5-35000	<u>NP</u>	3.1%	<u>95th percentile</u> n = 4266 Males: 344 Females: 389	<u>95th percentile</u> n = 4266 Males 35-44y: 115 45-54y: 173 55-64y: 386 65-74y: 879 Females <45y: 237 45-54y: 284 55-64y: 352 65-74y: 623	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31 ¹	Sheep monoclonal AB 42-46 ¹	Synthetic NT-proBNP 1-76	OUS (2023)	/
	Cobas e601, e602	Elecsys proBNP II STAT 9 min (NT-proBNP US)	No	NP	36	36-35000	<u>95th percentile</u> n = 1411 <45y: 167 45-54y: 174 55-64y: 209 65-74y: 319 ≥75y: 718	4.1%	NP	<u>95th percentile</u> n = 1411 Males <45y: 92.6 45-54y: 138 55-64y: 177 65-74y: 229 ≥75y: 852 Females <45y: 178 45-54y: 192 55-64y: 226 65-74y: 353 ≥75y: 624 55-64y: 352 65-74y: 623	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31 ¹	Sheep monoclonal AB 42-46 ¹	Synthetic NT-proBNP 1-76	US (2025)	/
	Cobas e601, e602	Elecsys proBNP II STAT 9 min (NT-proBNP OUS)	No	10	50	10-35000	NP	4.1%	<u>95th percentile</u> n = 4266 Males: 344 Females: 389	<u>95th percentile</u> n = 4266 Males 35-44y: 115 45-54y: 173 55-64y: 386 65-74y: 879 Females <45y: 237 45-54y: 284 55-64y: 352 65-74y: 623	Serum, plasma (EDTA, heparin)	Murine monoclonal AB 27-31 ¹	Sheep monoclonal AB 42-46 ¹	Synthetic NT-proBNP 1-76	OUS (2024)	/

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Siemens Healthineers	Atellica IM	PBNPII (NT-proBNP) [#]	No	20	35	35-35000	<u>95th percentile</u> n = 723 Overall: 163	<4%	NP	<u>95th percentile</u> Males, n = 341 <50y: 124 50-75y: 322 >75y: 154 Females, n = 362 <50y: 133 50-75y: 192 >75y: 178	Serum, plasma (EDTA, heparin)	Sheep monoclonal	Sheep monoclonal	NP	WW (2024)	/
	Atellica CI	PBNPII (NT-proBNP) [#]	No	20	35	35-35000	<u>95th percentile</u> n = 723 Overall: 163	<3.6%	NP	<u>95th percentile</u> Males, n = 341 <50y: 124 50-75y: 322 >75y: 154 Females, n = 362 <50y: 133 50-75y: 192 >75y: 178	Serum, plasma (EDTA, heparin)	Sheep monoclonal	Sheep monoclonal	NP	WW (2024)	/
	ADVIA Centaur XP/XPT	PBNPII (NT-proBNP) [#]	No	20	35	35-35000	<u>95th percentile</u> n = 723 Overall: 163	6.7%	NP	<u>95th percentile</u> Males, n = 341 <50y: 124 50-75y: 322 >75y: 154 Females, n = 362 <50y: 133 50-75y: 192 >75y: 178	Serum, plasma (EDTA, heparin)	Sheep monoclonal	Sheep monoclonal	NP	WW (2024)	/
	Atellica IM	BNP [#] (OUS)	No	2.4	1.5	2.0-5000	<u>95th percentile</u> n = 1521 Overall: 70.8 <45y: 33.3 45-54y: 46.7 55-64y: 53.2 65-74y: 72.3 ≥75y: 176	<3.2%	<u>95th percentile</u> Males, n = 736: 54.3 Females, n = 785: 86.1	<u>95th percentile</u> Males, n = 736 <45y: 29.4 45-54y: 32.8 55-64y: 38.8 65-74y: 67.6 ≥75y: 121 Females, n = 785 <45y: 35.9 45-54y: 56.7 55-64y: 75.5 65-74y: 72.9 ≥75y: 167	Plasma (EDTA)	Mouse monoclonal	Mouse monoclonal	NP	OUS (2022)	/
	Atellica IM	BNP [#] (US)	No	2.4	1.5	2.0-5000	<u>95th percentile</u> n = 1521 Overall: 70.8 <45y: 33.3 45-54y: 46.7 55-64y: 53.2 65-74y: 72.3 ≥75y: 176	<3.2%	<u>95th percentile</u> Males, n = 736: 54.3 Females, n = 785: 86.1	<u>95th percentile</u> Males, n = 736 <45y: 29.4 45-54y: 32.8 55-64y: 38.8 65-74y: 67.6 ≥75y: 121 Females, n = 785 <45y: 35.9 45-54y: 56.7 55-64y: 75.5 65-74y: 72.9 ≥75y: 167	Plasma (EDTA)	Mouse monoclonal	Mouse monoclonal	NP	US (2022)	/
	Atellica CI	BNP [#] (OUS)	No	4.0	4.0	2.0-5000	<u>95th percentile</u> n = 1521 Overall: 70.8 <45y: 33.3 45-54y: 46.7 55-64y: 53.2 65-74y: 72.3 ≥75y: 176100	<2.8%	<u>95th percentile</u> Males, n = 736: 54.3 Females, n = 785: 86.1	<u>95th percentile</u> Males, n = 736 <45y: 29.4 45-54y: 32.8 55-64y: 38.8 65-74y: 67.6 ≥75y: 121 Females, n = 785 <45y: 35.9 45-54y: 56.7 55-64y: 75.5 65-74y: 72.9 ≥75y: 167	Plasma (EDTA)	Mouse monoclonal	Mouse monoclonal	NP	OUS (2022)	/

Company	Platform	Assay	Point-of-care assay	LoD (ng/L)	LoQ (ng/L)	Measuring interval (ng/L)	Overall 97.5 th percentile (or by age) (ng/L)	%CV at URL	97.5 th percentile by sex (ng/L)	97.5 th percentile by age/sex (ng/L)	Specimen type	Capture antibody	Detection antibody	Standard material	Package Insert, version date	Other references
Siemens Healthineers	Atellica CI	BNP [#] (US)	No	4.0	4.0	2.0-5000	<u>95th percentile</u> n = 1521 Overall: 70.8 <45y: 33.3 45-54y: 46.7 55-64y: 53.2 65-74y: 72.3 ≥75y: 176100	<2.8%	<u>95th percentile</u> Males, n = 736: 54.3 Females, n = 785: 86.1	<u>95th percentile</u> Males, n = 736 <45y: 29.4 45-54y: 32.8 55-64y: 38.8 65-74y: 67.6 ≥75y: 121 Females, n = 785 <45y: 35.9 45-54y: 56.7 55-64y: 75.5 65-74y: 72.9 ≥75y: 167	Plasma (EDTA)	Mouse monoclonal	Mouse monoclonal	NP	US (2022)	/
	ADVIA Centaur XP/XPT	PBNP (NT-proBNP OUS) [#]	No	20	33	33-35000	<u>95th percentile</u> n = 551 <55y: 181.2 55-64y: 674.2 65-74y: 456.4 ≥75y: 611.6	<5.0%	NP	<u>95th percentile</u> Males, n = 348 <55y: 143.0 55-64y: 650.8 65-74y: 512.0 ≥75y: 603.6 Females, n = 203 <55y: 208.4 55-64y: 912.2 65-74y: 533.4 ≥75y: 665.0	Serum, plasma (EDTA, heparin)	Sheep monoclonal	Sheep monoclonal	NP	OUS (2022)	/
	ADVIA Centaur CP	PBNP (NT-proBNP OUS) [#]	No	20	35	35-35000	<u>95th percentile</u> n = 551 <55y: 181.2 55-64y: 674.2 65-74y: 456.4 ≥75y: 611.6	<2.0%	NP	<u>95th percentile</u> Males, n = 348 <55y: 143.0 55-64y: 650.8 65-74y: 512.0 ≥75y: 603.6 Females, n = 203 <55y: 208.4 55-64y: 912.2 65-74y: 533.4 ≥75y: 665.0	Serum, plasma (EDTA, heparin)	Sheep monoclonal	Sheep monoclonal	NP	OUS (2022)	/
	Atellica IM	PBNP (NT-proBNP OUS) [#]	No	20	14	14-35000	<u>95th percentile</u> n = 551 <55y: 181.2 55-64y: 674.2 65-74y: 456.4 ≥75y: 611.6	<5.0%	NP	<u>95th percentile</u> Males, n = 348 <55y: 143.0 55-64y: 650.8 65-74y: 512.0 ≥75y: 603.6 Females, n = 203 <55y: 208.4 55-64y: 912.2 65-74y: 533.4 ≥75y: 665.0	Serum, plasma (EDTA, heparin)	Sheep monoclonal	Sheep monoclonal	NP	OUS (2022)	/
	Atellica CI	PBNP (NT-proBNP OUS) [#]	No	20	35	35-35000	<u>95th percentile</u> n = 551 <55y: 181.2 55-64y: 674.2 65-74y: 456.4 ≥75y: 611.6	<5.0%	NP	<u>95th percentile</u> Males, n = 348 <55y: 143.0 55-64y: 650.8 65-74y: 512.0 ≥75y: 603.6 Females, n = 203 <55y: 208.4 55-64y: 912.2 65-74y: 533.4 ≥75y: 665.0	Serum, plasma (EDTA, heparin)	Sheep monoclonal	Sheep monoclonal	NP	OUS (2024)	/
	ADVIA Centaur XP/XPT	BNP [#] (OUS)	No	<2	2.5	2.0-5000	<u>95th percentile</u> n = 1521 Overall: 70.8 <45y: 33.3 45-54y: 46.7 55-64y: 53.2 65-74y: 72.3 ≥75y: 176	3.5%	<u>95th percentile</u> Males, n = 736: 54.3 Females, n = 785: 86.1	<u>95th percentile</u> Males, n = 736 <45y: 29.4 45-54y: 32.8 55-64y: 38.8 65-74y: 67.6 ≥75y: 121 Females, n = 785 <45y: 35.9 45-54y: 56.7 55-64y: 75.5 65-74y: 72.9 ≥75y: 167	Plasma (EDTA)	Mouse monoclonal	Mouse monoclonal	NP	OUS (2022)	/

Company	Platform	Assay	Point-of-care assay	LoD (ng/L)	LoQ (ng/L)	Measuring interval (ng/L)	Overall 97.5 th percentile (or by age) (ng/L)	%CV at URL	97.5 th percentile by sex (ng/L)	97.5 th percentile by age/sex (ng/L)	Specimen type	Capture antibody	Detection antibody	Standard material	Package Insert, version date	Other references
Siemens Healthineers	ADVIA Centaur CP	BNP (OUS)	No	<2	20% CV at LoQ of 2.5	2.0-5000	<u>95th percentile</u> n = 1521 Overall: 70.8 <45y: 33.3 45-54y: 46.7 55-64y: 53.2 65-74y: 72.3 ≥75y: 176	4.2%	<u>95th percentile</u> Males, n = 736: 54.3 Females, n = 785: 86.1	<u>95th percentile</u> Males, n = 736 <45y: 29.4 45-54y: 32.8 55-64y: 38.8 65-74y: 67.6 ≥75y: 121 Females, n = 785 <45y: 35.9 45-54y: 56.7 55-64y: 75.5 65-74y: 72.9 ≥75y: 167	Plasma (EDTA)	Mouse monoclonal	Mouse monoclonal	NP	OUS (2022)	/
	Dimension Vista	NT-proBNP	No	0.8	30	5-35000	<u>95th percentile</u> n = 318 <55y: 131.2 55-64y: 206.6 65-74y: 880.8 ≥75y: 1615.7	<5%	NP	<u>95th percentile</u> Males, n = 155 <55y: 168.8 55-64y: 154.7 65-74y: 880.8 ≥75y: 1969..7 Females, n = 163 <55y: 124.0 55-64y: 206.6 65-74y: 215.2 ≥75y: 1453.2	Serum, plasma (EDTA, heparin)	Sheep Monoclonal	Sheep monoclonal	NP	WW (2020)	/
	Dimension Vista	BNP [#]	No	3	10	5-5000	<u>95th percentile</u> n = 410 <45y: 43 45-54y: 40 55-64y: 81 65-74y: 157 ≥75y: 283	3.1%	NP	<u>95th percentile</u> Males, n = 187 <45y: 43 45-54y: 79 55-64y: 103 65-74y: 86 ≥75y: 528 Females, n = 223 <45y: 43 45-54y: 23 55-64y: 42 65-74y: 164 ≥75y: 159	Plasma (EDTA)	Mouse monoclonal	Mouse monoclonal	NP	WW (2019)	/
	Dimension	NT-proBNP (PBNP)	No	10	30	10-3000	<u>95th percentile</u> n = 308 <55y: 81.9 55-64y: 163.1 65-74y: 202.6 ≥75y: 1372.8	<5.6%	NP	<u>95th percentile</u> Males, n = 145 <55y: 134.4 55-64y: 114.3 65-74y: 76.0 ≥75y: 1475.7 Females, n = 163 <55y: 75.8 55-64y: 163.1 65-74y: 202.6 ≥75y: 1080.7	Serum, plasma (heparin)	Sheep Monoclonal	Sheep monoclonal	NP	WW (2019)	/
	DIMENSION EXL	NT-proBNP	No	2.3	30	5-35000	<u>95th percentile</u> n = 318 <55y: 131.2 55-64y: 206.6 65-74y: 880.8 ≥75y: 1615.7	10.2%	NP	<u>95th percentile</u> Males, n = 155 <55y: 168.8 55-64y: 154.7 65-74y: 880.8 ≥75y: 1969..7 Females, n = 163 <55y: 124.0 55-64y: 206.6 65-74y: 215.2 ≥75y: 1453.2	Serum, plasma (EDTA, heparin)	Sheep Monoclonal	Sheep monoclonal	NP	WW (2020)	/
	IMMULITE 2000	NT-proBNP (OUS)	No	10	35	20-35000	<u>95th percentile</u> n = 217 <75y: 110 ≥75y: 589	≤4.6%	NP	NP	Plasma (heparin)	NP	NP	NP	OUS (2018)	/

Company	Platform	Assay	Point-of-care assay	LoD (ng/L)	LoQ (ng/L)	Measuring interval (ng/L)	Overall 97.5 th percentile (or by age) (ng/L)	%CV at URL	97.5 th percentile by sex (ng/L)	97.5 th percentile by age/sex (ng/L)	Specimen type	Capture antibody	Detection antibody	Standard material	Package Insert, version date	Other references
Siemens Healthineers	Stratus CS	Acute care pBNP test Pack (NT-proBNP OUS)	Yes	≤15	50	15-2000	<u>95th percentile</u> n = 308 <55y: 130.5 55-64y: 202.3 65-74y: 218.9 ≥75y: 1707.0	5.3%	NP	<u>95th percentile</u> Males, n = 145 <55y: 163.5 55-64y: 157.4 65-74y: 116.4 ≥75y: 1884.8 Females, n = 163 <55y: 130.5 55-64y: 202.3 65-74y: 218.9 ≥75y: 1149.7	Whloee blood, plasma (heparin)	Sheep monoclonal	Sheep monoclonal	NP	OUS (2021)	/

LoD, limit of detection; LoB, limit of blank; LoQ, limit of quantitation; NP, not provided; POC, point of care; AB, antibody.

¹ Information not reported in a Package Insert or a published manuscript. For more information, please contact the manufacturer.