

Natriuretic Peptide Assay Interference Table Designated by Manufacturer: Hemolysis and Biotin
IFCC Committee on Clinical Applications of Cardiac Biomarkers (C-CB) v052023

			Hemolysis				Biotin					
Company	Assay	Platform	Hemolysis Limit (No Interference Up to Stated Value)	Influence of Hemolysis Greater Than the Threshold (+/-)	Hemolysis Assessment	Acceptance Criteria**	Biotinylated Antibody	Biotin Used in Assay Configuration	Interference Threshold	Acceptance Criteria**	Highest Biotin Concentration Tested	Influence of Biotin Above the Threshold
Abbott Diagnostics	BNP (8K28)	ARCHITECT	5.0 g/L (500 mg/dL)	ND	Qualitative	≤10%	No	No	ND	NA	ND	ND
	BNP (8P24)*	Alinity i	5.0 g/L (500 mg/dL)	ND	Qualitative	≤10%	No	No	ND	NA	ND	ND
	Alere NT-proBNP (2R10)*	ARCHITECT	10 g/L (1,000 mg/dL)	ND	Qualitative	≤10%	Yes	No	4250 µg/L	≤10%	4250 µg/L	ND
Abbott POC	BNP	i-STAT	None	NA	Visual/Qualitative		No	No	ND	NA		
Beckman Coulter	BNP	Access 2, UniCel DxI	5.0 g/L (500 mg/dL)	(-)	Qualitative	≤10%	Yes (pre-bound)	Yes (pre-bound)	ND	NA	NA	NA
bioMérieux	NT-proBNP2	VIDAS	5.0 g/L (500 mg/dL)	ND	Qualitative	±10%	No	No	ND	NA	NA	NA
ET Healthcare	BNP*	Pylon 3d	10 g/L (1,000 mg/dL)	(+)	Qualitative	±15%	Yes	No	2,000,000 µg/L (2 mg/mL)	±10%	2,000,000 µg/L (2 mg/mL)	ND
Fujirebio	BNP	Lumipulse G1200/G600II	0.98 g/L (98 mg/dL)	ND	CLSI EP7-A2	±10%	No	No	ND	NA	NA	NA
LSI Medience	NT-proBNP	PATHFAST	1.4 g/L (1,400 mg/dL)	(-)	Cyanmethemoglobin method	10%	No	No	1500 µg/L	±20%	1500 µg/L	ND
Ortho-Clinical Diagnostics	NT-proBNP	ECi/ECiQ, 3600, 5600, XT 7600	4.0 g/L (400 mg/dL) @ 88.4 ng/L	(+)	Automated/Quantitative	<10%	Yes	Yes	15 ng/mL	<10% @ ~125 ng/L (14.8 pmol/L)	3500 ng/mL	(-)
	NT-proBNP II	VITROS ECi/ECiQ Immunodiagnostic Systems, VITROS 3600 Immunodiagnostic Systems, VITROS 5600 Integrated System, VITROS XT 7600 System	10 g/L (1000 mg/dL)	NA	Automated/Quantitative	≤10%	No	Yes	No interference	≤10%	3510 µg/L	None

	NT-proBNP II*	VITROS ECi/ECiQ Immunodiagnostic Systems, VITROS 3600 Immunodiagnostic Systems, VITROS 5600 Integrated System, VITROS XT 7600 System	10 g/L (1000 mg/dL)	NA	Automated/Quantitative	±10%	Yes	Yes (pre-bound)	ND	±10%	3510 µg/L	ND
Quidel/Alere	BNP	Triage	10 g/L (1,000 mg/dL)	(+)	Qualitative	≤10%	No	No	ND	NA	NA	NA
	BNP SOB	Triage	5.0 g/L (500 mg/dL)	(+)	Qualitative	≤10%	No	No	ND	NA	NA	NA
	BNP Cardio*	Triage	1.0 g/L (100 mg/dL)	(+)	Qualitative	≤10%	No	No	ND	NA	NA	NA
	NT-proBNP*	Triage	5.0 g/L (500 mg/dL)	(-)	Qualitative	≤10%	No	No	ND	NA	NA	NA
Radiometer, POC	NT-proBNP*	AQT90 FLEX	2.0 g/L (200 mg/dL)	No interference	Qualitative	NA	Yes (pre-bound)	Yes (pre-bound)	2600ug/L	≤10%	3000ug/L	None
Roche Diagnostics	proBNP II and proBNP II STAT	MODULAR E170, cobas e411. e601, e602, e801	10 g/L (1,000 mg/dL)	(-)	Serum indices on pre-analytic module; Qualitative	Recovery ± 20% @ < 100 ng/L; ± 10% @ ≥ 100 ng/L	Yes	Yes (as conjugated Ab, no free biotin added)	35 µg/L	Recovery of ±10 ng/L of initial value ≤ 100 ng/L and ±10% of initial value > 100 ng/L	35 µg/L	ND
Roche Diagnostics POC	Roche CARDIAC proBNP+	cobas h 232 POC system	1.78 g/L (178 mg/dL)	(-)	Qualitative	Mean bias vs. reference sample: ≤±34 ng/L (60-225 ng/L) and ≤±15% (225-9000 ng/L)	Yes	Yes (as conjugated Ab, no free biotin added)	30 µg/L	<15 % for biotin conc. up to 10 µg/L Mean bias vs. reference sample: ≤±34 ng/L (60-225 ng/L NT-proBNP) and ≤±15% (225-9000 ng/L NT-proBNP)	30 µg/L	ND

Siemens Healthineers	BNP#	ADVIA Centaur® CP System	1.0 g/L (100 mg/dL)	ND	Qualitative	±10%	Yes	Yes	250 µg/L ***	±10%	1500 µg/L	(-)
	BNP#	ADVIA Centaur® XP/XPT Systems	1.0 g/L (100 mg/dL)	ND	Qualitative	±10%	Yes	Yes	250 µg/L ***	±10%	1500 µg/L	(-)
	BNP#	Atellica™ IM Analyzer	1.0 g/L (100 mg/dL)	ND	Quantitative	±10%	Yes	Yes	250 µg/L ***	±10%	1500 µg/L	(-)
	BNP#	Dimension Vista® System	5.0 g/L (500 mg/dL)	ND	Quantitative	±10%	Yes	Yes	100 µg/L	±10%	1200 µg/L	(-)
	NT-proBNP#	ADVIA Centaur® CP System	10 g/L (1,000 mg/dL)	ND	Qualitative	±10%	Yes	Yes	75 µg/L	±10%	1500 µg/L	(-)
	NT-proBNP#	ADVIA Centaur® XP/XPT Systems	10 g/L (1,000 mg/dL)	ND	Qualitative	±10%	Yes	Yes	75 µg/L	±10%	1500 µg/L	(-)
	NT-proBNP#	Atellica™ IM Analyzer	10 g/L (1,000 mg/dL)	ND	Quantitative	±10%	Yes	Yes	75 µg/L	±10%	1500 µg/L	(-)
	NT-proBNP#	Dimension® EXL™ System	10 g/L (1,000 mg/dL)	ND	Quantitative	±10%	Yes	Yes	250 µg/L	±10%	1200 µg/L	(-)
	NT-proBNP#	Dimension® RXL™ System	10 g/L (1,000 mg/dL)	ND	Quantitative	±10%	No	No	NA	NA	NA	NA
	NT-proBNP#	Dimension Vista® System	10 g/L (1,000 mg/dL)	ND	Quantitative	±10%	Yes	Yes	100 µg/L	±10%	1200 µg/L	(-)
	NT-proBNP#	IMMULITE® 2000/2000 XPi Systems	6.0 g/L (600 mg/dL)	ND	Qualitative	±10%	Yes	Yes	1500 µg/L	±10%	1500 µg/L	ND
	Turbo NT-proBNP#	IMMULITE® /IMMULITE® Turbo 1000 Systems	6.0 g/L (600 mg/dL)	ND	Qualitative	±10%	Yes	Yes	1500 µg/L	±10%	1500 µg/L	ND
Thermo Fisher	MR-proANP*	BRAHMS MRproANP Kryptor	10 g/L (1,000 mg/dL)			CLSI EP7-A2			ND	ND	ND	ND

Tosoh	No information provided	No information provided
-------	-------------------------	-------------------------

ND: Not Determined
NA: Not Applicable

*Not yet cleared by the FDA for clinical use in the United States
**Acceptance criteria were those defined in the package insert for determining whether interference was considered significant or not
*** Not in current Instructions for Use (IFU)
**** Under further investigation
Disclaimer: The products/features mentioned herein are not commercially available in all countries. Their future availability cannot be guaranteed.