

Cardiac Troponin Assay Interference Table Designated by Manufacturer: Hemolysis and Biotin
IFCC Committee on Clinical Applications of Cardiac Biomarkers (C-CB) v082025

			Hemolysis				Biotin					
Company	Assay	Platform	Hemolysis Limit (no interference up to stated value)	Influence of hemolysis above the threshold (+/-)	End user 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	hs-cTnI (OUS)	Alinity	5.0 g/L (500 mg/dL)	ND	Qualitative	≤10%	No	No	ND	ND	ND	ND
	hs-cTnI (US)	Alinity	10.0 g/L (1000 mg/dL)	ND	Qualitative	≤10%	No	No	ND	≤10%	4250 µg/L	ND
	hs-cTnI (OUS)	ARCHITECT	5.0 g/L (500 mg/dL)	ND	Qualitative	≤10%	No	No	ND	ND	ND	ND
	hs-cTnI (US)	ARCHITECT	5.0 g/L (500 mg/dL)	ND	Qualitative	≤10%	No	No	ND	≤10%	290 µg/L	ND
	hs-cTnI (US)	i-STAT System POC	10.0 g/L (1000 mg/dL)	ND	Qualitative	≤10%	No	Yes	3490 µg/L	≤10%	3490 µg/L	ND
Beckman Coulter	hs-cTnI	Dxl 9000, Access 2, UniCel Dxl	4.0 g/L (400 mg/dL)	ND	Quantitative	≤10% ≤2.3 ng/L if cTn ≤11.5 ng/L	No	No	ND	ND	ND	NA
Lifotronic	hs-cTnI STAT	eCL8000, eCL8000i, eCL8000p, eCL8000x, eCL8600, eCL8600i, eCL8600p, eCL8800, eCL8800i, eCL8800p, eCL9000, eCL9600, eCL9900, eCL9900i	6.08 g/L (608 mg/dL)	ND	Qualitative ¹	±10%	No ¹	No ¹	3500 µg/L	±10%	3500 µg/L	ND
	hs-cTnT STAT	eCL8000, eCL8000i, eCL8000p, eCL8000x, eCL8600, eCL8600i, eCL8600p, eCL8800, eCL8800i, eCL8800p, eCL9000, eCL9600, eCL9900, eCL9900i	5.0 g/L (500 mg/dL)	ND	Qualitative ¹	±10%	Yes ¹	Yes ¹	300 µg/L	±10%	300 µg/L	(-) ¹
Maccura	cTnI	i9000, i8000, i6000, i3000, i3000L, i3000S, i1000, i1000L, i1000S, i820, i800	1000 mg/dL	ND	Qualitative	±15%	Yes	Yes	1200 µg/L	±15%	1200 µg/L	ND
	cTnT	i9000, i8000, i6000, i3000, i3000L, i3000, i1000, i1000L, i1000S, i820, i800	500 mg/dL	ND	Qualitative	±15%	Yes	Yes	3000 µg/L	±15%	3000 µg/L	ND
	cTnI	i9000, i8000, i6000, i3000, i3000L, i3000, i1000, i1000L, i1000S, i820, i800	15 g/L (1,500 mg/dL) ¹	ND	Qualitative	±10%	Yes ¹	Yes ¹	30000 µg/L	±10%	30000 µg/L	ND
Mindray	hs-cTnI	CL-series	6.08 g/L (608 mg/dL)	ND	Quantitative	±10%	Yes	Yes	3500 µg/L	±10%	3500 µg/L	ND
PHC Corporation	cTnI (cTnI OUS)	PATHFAST	10 g/L (1,000 mg/dL)	ND	Quantitative ¹	±10%	No	No	1500 µg/L ¹	±20% ¹	1500 µg/L ¹	ND
	cTnI-II (cTnI US)	PATHFAST	10 g/L (1,000 mg/dL)	ND	Quantitative ¹	±10%	No	No	1500 µg/L ¹	±20% ¹	1500 µg/L ¹	ND
	hs-cTnI (hs-cTnI OUS)	PATHFAST	10 g/L (1,000 mg/dL)	ND	Quantitative ¹	±10%	No	No	1500 µg/L ¹	±20% ¹	1500 µg/L ¹	ND
	hs-cTnI-II (hs-cTnI US)	PATHFAST	10 g/L (1,000 mg/dL)	ND	Quantitative ¹	±10%	No	No	1500 µg/L ¹	±20% ¹	1500 µg/L ¹	ND

			Hemolysis				Biotin					
Company	Assay	Platform	Hemolysis Limit (no interference up to stated value)	Influence of hemolysis above the threshold (+/-)	End user 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 (+/-)
QuidelOrtho	hs-cTnI	VITROS Eci/ECiQ	6.1 g/L (608 mg/dL)	(-)	Quantitative	<10%	Yes	Yes	3510 µg/L	≤10%	3510 µg/L	NA
	hs-cTnI	VITROS XT 7600	6.1 g/L (608 mg/dL)	(-)	Quantitative	<10%	Yes	Yes	3510 µg/L	≤10%	3510 µg/L	NA
	hs-cTnI	VITROS 5600	6.1 g/L (608 mg/dL)	(-)	Quantitative	<10%	Yes	Yes	3510 µg/L	≤10%	3510 µg/L	NA
	hs-cTnI	VITROS 3600	6.1 g/L (608 mg/dL)	(-)	Quantitative	<10%	Yes	Yes	3510 µg/L	≤10%	3510 µg/L	NA
	cTnI	VITROS Eci/ECiQ	1.0 g/L (100 mg/dL)	(+)	Quantitative	<10%	Yes	Yes	2.5 µg/L	≤10%	3500 µg/L	(-)
	cTnI	VITROS XT 7600	1.0 g/L (100 mg/dL)	(+)	Quantitative	<10%	Yes	Yes	2.5 µg/L	≤10%	3500 µg/L	(-)
	cTnI	VITROS 5600	1.0 g/L (100 mg/dL)	(+)	Quantitative	<10%	Yes	Yes	2.5 µg/L	≤10%	3500 µg/L	(-)
	cTnI	VITROS 3600	1.0 g/L (100 mg/dL)	(+)	Quantitative	<10%	Yes	Yes	2.5 µg/L	≤10%	3500 µg/L	(-)
	hscTnI	Triage	1.98 g/L (198 mg/dL)	ND	Qualitative	≤10 %	No	No	3600 µg/L	≤10 %	3600 µg/L	NA
	cTnI cardiac Panel	Triage	10 g/L (1,000 mg/dL)	(+)	Qualitative	≤10%	No	No	ND	NA	NA	NA
	cTnI profiler SOB Panel	Triage	5.0 g/L (500 mg/dL)	(+)	Qualitative	≤10%	No	No	ND	NA	NA	NA
	cTnI Cardio2, Cardio3	Triage	1.0 g/L (100 mg/dL)	ND	Qualitative	≤10%	No	No	ND	NA	NA	NA
Radiometer POC	TnI	AQT90 FLEX	10 g/L (1000 mg/dL)	NP	NP	≤10%	NP	NP	2600 µg/L	≤10 %	2600 µg/L	NA
	TnT	AQT90 FLEX	2.0 g/L (200 mg/dL) ¹	(-) ¹	NP	≤10% ¹	NP	NP	2600 µg/L	≤10 %	2600 µg/L	NA
RealMind Biotech	hs-cTnI	ACL2800, ACL2800S, MCL60, A6I	5.0 g/L (500 mg/dL)	(+) ¹	Qualitative ¹	≤10%	Yes	Yes	36.65 µg/L	±10%	48.86 µg/L ¹	(-) ¹
	hs-cTnT	ACL2800, ACL2800S, MCL60, A6I	1.0 g/L (100 mg/dL)	(+) ¹	Qualitative ¹	≤10%	No ¹	No ¹	ND	NA	ND	ND
Roche Diagnostics	Elecsys hs-cTnT 18 min OUS	Cobas e601, e602	1.0 g/L (100 mg/dL)	ND	Quantitative	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	Yes	Yes	1200 µg/L	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	1200 µg/L	ND
	Elecsys hs-cTnT 18 min OUS	Cobas e411	1.0 g/L (100 mg/dL)	ND	Quantitative	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	Yes	Yes	1200 µg/L	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	1200 µg/L	ND
	Elecsys hs-cTnT 9 min OUS	Cobas e601, e602	1.0 g/L (100 mg/dL)	ND	Quantitative	±2.8 ng/L if cTn <14 ng/L ±20% if cTn 14-100 ng/L ±10% if cTn ≥100 ng/L	Yes	Yes	1200 µg/L	±2.8 ng/L if cTn <14 ng/L ±20% if cTn 14-100 ng/L ±10% if cTn ≥100 ng/L	1200 µg/L	ND
	Elecsys hs-cTnT 9 min OUS	Cobas e411	1.0 g/L (100 mg/dL)	ND	Quantitative	±2.8 ng/L if cTn <14 ng/L ±20% if cTn 14-100 ng/L ±10% if cTn ≥100 ng/L	Yes	Yes	1200 µg/L	±2.8 ng/L if cTn <14 ng/L ±20% if cTn 14-100 ng/L ±10% if cTn ≥100 ng/L	1200 µg/L	ND
	hs-cTnT Gen 5 STAT US	Cobas e601, e602	1.0 g/L (100 mg/dL)	ND	Quantitative	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	Yes	Yes	1200 µg/L	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	1200 µg/L	(-)

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Roche Diagnostics	hs-cTnT Gen 5 STAT US	Cobas e411	1.0 g/L (100 mg/dL)	ND	Quantitative	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	Yes	Yes	1200 µg/L	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	1200 µg/L	(-)
	Elecsys hs-cTnT 18 min OUS	Cobas e801, e402	1.0 g/L (100 mg/dL)	ND	Quantitative	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	Yes	Yes	1200 µg/L	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	1200 µg/L	ND
	Elecsys hs-cTnT 9 min OUS	Cobas e801, e402	1.0 g/L (100 mg/dL)	ND	Quantitative	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	Yes	Yes	1200 µg/L	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	1200 µg/L	ND
	Elecsys hs-cTnT 9 min US	Cobas e801, e402	1.0 g/L (100 mg/dL)	ND	Quantitative	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	Yes	Yes	1200 µg/L	±1.4 ng/L if cTn <14 ng/L 100 ±10% if cTn ≥14 ng/L	1200 µg/L	(-)
Shenzhen Drawray Biotech	iStar 500	hs-cTnI	15 g/L (1500 mg/dL)	(-) ¹	Quantitative	≤10%	No	No	NA	NA	NA	NA
Siemens Healthineers	hs-cTnI (TNIH OUS)	ADVIA Centaur XP/XPT	5 g/L (500 mg/dL)	ND	Qualitative ¹	±10%	Yes	Yes	3500 µg/L	±10%	3500 µg/L	ND
	hs-cTnI (TNIH US)	ADVIA Centaur XP/XPT	5 g/L (500 mg/dL)	ND	Qualitative ¹	±10%	Yes	Yes	3500 µg/L	±10%	3500 µg/L	ND
	hs-cTnI (TNIH OUS)	ADVIA Centaur CP	5 g/L (500 mg/dL)	ND	Qualitative ¹	±10%	Yes	Yes	3500 µg/L	±10%	3500 µg/L	ND
	hs-cTnI (TNIH US)	ADVIA Centaur CP	5 g/L (500 mg/dL)	ND	Qualitative ¹	±10%	Yes	Yes	3500 µg/L	±10%	3500 µg/L	ND
	hs-cTnI (TNIH OUS)	Atellica IM	5.0 g/L (500 mg/dL)	ND	Quantitative ¹	±10%	Yes	Yes	3500 µg/L	±10%	3500 µg/L	ND
	hs-cTnI (TNIH US)	Atellica IM	5.0 g/L (500 mg/dL)	ND	Quantitative ¹	±10%	Yes	Yes	3500 µg/L	±10%	3500 µg/L	ND
	hs-cTnI (TNIH OUS)	Atellica CI	5.0 g/L (500 mg/dL)	ND	Quantitative ¹	±10%	Yes	Yes	3500 µg/L	±10%	3500 µg/L	ND
	hs-cTnI (TNIH US)	Atellica CI	5.0 g/L (500 mg/dL)	ND	Quantitative ¹	±10%	Yes	Yes	3500 µg/L	±10%	3500 µg/L	ND
	hs-cTnI (TNIH OUS)	Dimension EXL	4.0 g/L (400 mg/dL)	ND	Quantitative ¹	±10%	Yes	Yes	300 µg/L	±10% or ±5 ng/L	1200 µg/L ¹	(-)
	hs-cTnI (TNIH US)	Dimension EXL	4.0 g/L (400 mg/dL)	ND	Quantitative ¹	±10%	Yes	Yes	300 µg/L	±10% or ±5 ng/L	1200 µg/L ¹	(-)
	hs-cTnI (TNIH OUS)	Dimension Vista	4.0 g/L (400 mg/dL)	ND	Quantitative ¹	±10%	Yes	Yes	300 µg/L	±10%	1200 µg/L	(-)
	hs-cTnI (TNIH US)	Dimension Vista	4.0 g/L (400 mg/dL)	ND	Quantitative ¹	±10%	Yes	Yes	300 µg/L	±10%	1200 µg/L	(-)
	CTNI	Dimension	10 g/L (1000 mg/dL)	ND	Quantitative ¹	±10%	No	No	ND	NA	NA	NA
	CTNI	IMMULITE 2000	5.0 g/L (512 mg/dL)	ND	NP	±10%	No	No	1500 µg/L	±10%	1500 µg/L	ND
	CTNI	IMMULITE 2000	5.0 g/L (512 mg/dL)	ND	NP	±10%	No	No	1500 µg/L	±10%	1500 µg/L	ND
	Acute care cTnI test pack	Stratus CS	10.0 g/L (1000 mg/dL)	ND	Plasma Qualitative	±10%	No	No	ND	ND	ND	ND
	hs-cTnI	Atellica VTli	10.0 g/L (1000 mg/dL)	ND	Plasma Qualitative	±10%	No	No	3150 µg/L	±10%	3150 µg/L	ND
YHLO Biotech Co.	iFlash-hs-cTnI	iFlash 3000-C iFlash 1800-A iFlash 1200-A iFlash 9000-A	10.0 g/L (1000 mg/dL)	(-) ¹	Qualitative	±10%	Yes	Yes	ND	ND	ND	ND

			Hemolysis				Biotin					
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Zybio Inc.	hs-cTnI	EXI CLIA System	5 g/L (500mg/dL)	ND	Qualitative	≤10%	Yes	Yes	100 µg/L	≤10%	100 µg/L	NA

ND: Not Determined, NA: Not Applicable
*Acceptance criteria were those defined in the package insert for determining whether interference was considered significant or not

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