

Biotin interference: Potential with current LabPlus Antibody-based Assays

Analyte	Instrument	Principle	Potential biotin interference	Comments
ACTH	Diasorin XL	ECLIA	No	
AFP	Roche Cobas	ECLIA Sandwich	False low	Biotin resistant assay introduced 30/06/23
Aldosterone	Diasorin XL	ECLIA	No	
Alpha-1 antitrypsin	Roche Cobas	Turbidimetric	No	
Androstenedione	LCMS	Chromatography	No	
Anti-HAVRAW	Roche Cobas	ECLIA Competetive	False high	
Anti-HBcRAW	Roche Cobas	ECLIA Competetive	False high	
Anti-HBeRAW	Roche Cobas	ECLIA Competetive	False high	
Anti-HBsRAW	Roche Cobas	ECLIA Sandwich	False low	Biotin resistant assay introduced 12/6/20
Anti-HCVRAW	Roche Cobas	ECLIA Sandwich	False low	
Anti-Thyroglobulin	Roche Cobas	ECLIA Competitive	False high	Biotin resistant assay introduced 30/06/23
Anti-TPO	Roche Cobas	ECLIA Competitive	False high	
Anti-TSH receptor	Roche Cobas	ECLIA Competitive	False high	Biotin resistant assay introduced 06/07/20
B12	Roche Cobas	ECLIA Competitive	False high	
CA125	Roche Cobas	ECLIA Sandwich	False low	
CA15-3	Roche Cobas	ECLIA Sandwich	False low	
CA19-9	Roche Cobas	ECLIA Sandwich	False low	
Calcitonin	Diasorin XL	ECLIA	No	
CEA	Roche Cobas	ECLIA Sandwich	False low	
Chromogranin A	Brahms Kryptor	ECLIA	No	
Ciclosporin (Cylosporin)	Roche Cobas	ECLIA Competetive	False high	
CKMB	Roche Cobas	ECLIA Sandwich	False low	
Cortisol	Roche Cobas	ECLIA Competitive	False high	
C-peptide	Roche Cobas	ECLIA Sandwich	False low	
DHEAS	Roche Cobas	ECLIA Competitive	False high	
Ferritin	Roche Cobas	ECLIA Sandwich	False low	
Folate	Roche Cobas	ECLIA Competitive	False high	Biotin resistant assay introduced 15/5/25
Free PSA	Roche Cobas	ECLIA Sandwich	False low	Biotin resistant assay introduced 17/6/20
Free T3	Roche Cobas	ECLIA Competitive	False high	Biotin resistant assay introduced 19/07/22

Free T4	Roche Cobas	ECLIA Competitive	False high	Biotin resistant assay introduced 17/01/23
FSH	Roche Cobas	ECLIA Sandwich	False low	Biotin resistant assay introduced 19/07/22
GH (growth hormone)	Roche Cobas	ECLIA Sandwich	False low	
hCG	Roche Cobas	ECLIA Sandwich	False low	
5HIAA	LCMS	Chromatography	No	
HIV	Roche Cobas	ELICA Sandwich	*	Biotin resistant assay introduced 7/7/21
IGF1	Diasorin XL	ECLIA	No	
Immunoglobulins	Roche Cobas	Turbidimetric	No	
Insulin	Roche Cobas	ECLIA Sandwich	False low	
LH	Roche Cobas	ECLIA Sandwich	False low	
Metanephrines	LCMS	Chromatography	No	
Microalbumin	Roche Cobas	Turbidimetric	No	
Myoglobin (plasma)	Roche Cobas	ECLIA Sandwich	False low	
NT-ProBNP	Roche Cobas	ECLIA Sandwich	*	Biotin resistant assay introduced 12/6/20
Oestradiol(N)	Roche Cobas	ECLIA Competitive	False high	
Procollagen1NTpeptide (P1NP)	Roche Cobas	ECLIA Sandwich	False low	
Progesterone	Roche Cobas	ECLIA Competitive	False high	
17OH-Progesterone	LCMS	Chromatography	No	
Prolactin	Roche Cobas	ECLIA Sandwich	False low	
PSA (total)	Roche Cobas	ECLIA Sandwich	False low	Biotin resistant assay introduced 17/6/20
PTH	Roche Cobas	ECLIA Sandwich	False low	Biotin resistant assay introduced 25/06/24
Renin (direct active)	Diasorin XL	ECLIA	No	
Rubella IgG RAW	Roche Cobas	ECLIA Sandwich	False low	
Rubella IgM RAW	Roche Cobas	ECLIA Sandwich	False low	
SHBG	Roche Cobas	ECLIA Sandwich	False low	
Sirolimus	Roche Cobas	ECLIA Competitive	False high	
Syphilis Serology RAW	Roche Cobas	ECLIA Sandwich	False low	
Tacrolimus	Roche Cobas	ECLIA Competitive	False high	
Testosterone	Roche Cobas	ECLIA Competitive	False high	Biotin resistant assay introduced 19/07/22
Thyroglobulin	Roche Cobas	ECLIA Sandwich	False low	Biotin resistant assay introduced 08/12/21

Toxoplasma IgG RAW	Roche Cobas	ECLIA Sandwich	False low	
Toxoplasma IgM RAW	Roche Cobas	ECLIA Sandwich	False low	
Troponin T	Roche Cobas	ECLIA Sandwich	*	Biotin resistant assay introduced 29/1/20
TSH	Roche Cobas	ECLIA Sandwich	*	Biotin resistant assay introduced Feb 2020
VitaminB12	Roche Cobas	ECLIA Competetive	False high	

HAVIgMRAW	Roche Cobas	μ-capture		
HBcIgMRAW	Roche Cobas	μ-capture		
HBeAgRAW	Roche Cobas	μ-capture		
HBsAg(qualitative)RAW	Roche Cobas	μ-capture		