

## CLIA Proficiency Testing Limits<sup>1</sup>

<u>Analyte</u>	<u>Limit</u>
Acetaminophen	± 3 mcg/mL or 15% (whichever is greater)
Alanine aminotransferase (ALT, SGPT)	± 6 U/L or 15% (whichever is greater)
Albumin	± 8%
Alcohol, blood	± 20%
Alkaline phosphatase	± 20%
Alpha-1 antitrypsin	± 20%
Alpha fetoprotein (AFP)	± 20%
Amylase	± 20%
Antistreptolysin O (ASO)	± 2 dilution
Aspartate aminotransferase (AST, SGOT)	± 6 U/L or 15% (whichever is greater)
Bilirubin, total	± 0.4 mg/dL or 20% (whichever is greater)
Blood gas pCO <sub>2</sub>	± 5 mmHg or 8% (whichever is greater)
Blood gas pCO <sub>2</sub>	± 15 mmHg or 15% (whichever is greater)
Blood gas pH	± 0.04
B-natriuretic peptide (BNP)	± 30%
Pro B-natriuretic peptide (proBNP)	± 30%
Calcium, total	± 1.0 mg/dL
Cancer antigen (CA) 125	± 20%
Carbon dioxide	± 20%
Carbamazepine	± 1 mcg/mL or 20% (whichever is greater)
Carcinoembryonic antigen (CEA)	± 1 ng/mL or 15% (whichever is greater)
Chloride	± 5%
Cholesterol, high density lipoprotein (HDL)	± 6 mg/dL or 20% (whichever is greater)
Cholesterol, low density lipoprotein (LDL), direct	± 20%
Cholesterol, total	± 10%
Complement C3	± 15%
Complement C4	± 5 mg/L or 30% (whichever is greater)
Cortisol	± 20%
Creatine kinase (CK)	± 20%
Creatine kinase isoenzymes (CK-MB)	± 3 ng/mL or 25% (whichever is greater)
Creatinine	± 0.2 mg/dL or 10% (whichever is greater)
Digoxin	± 0.2 ng/mL or 15% (whichever is greater)
Estradiol	± 30%
Ferritin	± 20%
Folate, serum	± 1 ng/mL or 30% (whichever is greater)
Follicle stimulating hormone (FSH)	± 2 U/L or 18% (whichever is greater)
Free thyroxine (Free T4)	± 0.3 ng/dL or 15% (whichever is greater)
Gamma glutamyl transferase (GGT)	± 5 U/L or 15% (whichever is greater)
Gentamicin	± 25%
Glucose	± 6 mg/dL or 8% (whichever is greater)
Hemoglobin A1c	± 8%
Human chorionic gonadotropin (hCG)	± 3 mU/mL or 18% (whichever is greater)

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IgA	± 20%
IgE	± 20%
IgG	± 20%
IgM	± 20%
Iron, total	± 15%
Lactate dehydrogenase (LDH)	± 15%
Lithium	± 0.3 mmol/L or 15% (whichever is greater)
Luteinizing hormone	± 20%
Magnesium	± 15%
Parathyroid hormone	± 30%
Phenobarbital	± 2 mcg/mL or 15% (whichever is greater)
Phenytoin	± 2 mcg/mL or 15% (whichever is greater)
Phosphorus	± 0.3 mg/dL or 10% (whichever is greater)
Potassium	± 0.3 mmol/L
Progesterone	± 25%
Prolactin	± 20%
Prostate Specific Antigen, total (PSA)	± 0.2 ng/mL or 20% (whichever is greater)
Quinidine	± 25%
Rheumatoid factor (RF)	± 2 dilution
Salicylate	± 2 mcg/mL or 15% (whichever is greater)
Sodium	± 4 mmol/L
T3 uptake	± 18%
Testosterone	± 20 ng/dL or 30% (whichever is greater)
Theophylline	± 20%
Thyroid stimulating hormone (TSH)	± 0.2 mU/L or 20% (whichever is greater)
Thyroxine (T4)	± 1.0 mcg/dL or 20% (whichever is greater)
Tobramycin	± 20%
Total Iron Binding Capacity, direct (TIBC)	± 20%
Total protein	± 8%
Triglycerides	± 15%
Triiodothyronine (T3)	± 30%
Troponin I	± 0.9 ng/mL or 30% (whichever is greater)
Troponin T	± 0.2 ng/mL or 30% (whichever is greater)
Urea Nitrogen (BUN)	± 2 mg/dL or 9% (whichever is greater)
Uric acid	± 10%
Valproic acid	± 20%
Vancomycin	± 2 mcg/mL or 15% (whichever is greater)
Vitamin B12	± 30 pg/mL or 25% (whichever is greater)

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<sup>1</sup>Federal Register 42 CFR Part 493, Department of Health and Human Services, January 24, 2003; §493.927 through 493.937

