

Clinical Chemistry - Method Principle Codes

GLUCOSE

- A. Hexokinase, UV
- B. Hexokinase, colorimetric
- C. Glucose oxidase, colorimetric
- D. Glucose oxidase, O₂ electrode
- E. o-Toluidine
- F. Glucose dehydrogenase
- G. Oxygen rate
- Z. Other

UREA NITROGEN

- A. Urease with glutamate dehydrogenase
- B. Diacetyl monoxime
- C. Urease, conductivity rate
- D. Urease with indicator dye
- E. Urease/hypochlorite (Berthelot)
- F. Urease/Nessler's
- G. Urease/Ammonium ion selective electrode
- H. o-Phthalaldehyde
- Z. Other

CREATININE

- A. Alkaline picrate - Jaffe (kinetic/rate)
- B. Alkaline picrate - Jaffe (endpoint)
- C. Alkaline picrate - Jaffe (w/Lloyd's reagent)
- D. Enzymatic (creatinine iminohydrolase)
- E. Enzymatic (creatinine amidohydrolase)
- F. Enzymatic colorimetric (4-aminophenazone)
- Z. Other

URIC ACID

- A. Uricase (NAD-NADH reaction)
- B. Uricase/allantoin (differential absorption)
- C. Uricase/oxidase (colorimetric)
- D. Phosphotungstic acid (Caraway-Henry)
- Z. Other

BILIRUBIN (TOTAL)

- A. Diazotized sulfanilic acid with blank (Jendrassik-Gróf)
- B. Diazotized sulfanilic acid without blank (Jendrassik-Gróf)
- C. Diazotized sulfanilic acid (Malloy-Evelyn)
- D. Enzymatic (bilirubin oxidase)
- E. Azobilirubin/dyphylline
- F. Diazonium salt (DPD, DCAD, etc.)
- G. Oxidation
- Z. Other

PHOSPHORUS

- A. Phosphomolybdate-no reduction
- B. Phosphomolybdate reduction (ANS)
- C. Phosphomolybdate reduction (stannous chloride)
- D. Phosphomolybdate reduction (PMA phenol)
- E. Phosphomolybdate reduction (ascorbic acid/malonic acid)
- F. Phosphomolybdate reduction-other
- Z. Other

CALCIUM

- A. o-Cresolphthalein
- B. o-Cresolphthalein (with dialysis)
- C. Atomic Absorption
- D. Arsenazo dye
- E. Alizarin/methylthymol blue complex
- F. Ion selective electrode
- Z. Other

MAGNESIUM

- A. Calmagite
- B. Methylthymol Blue
- C. Atomic Absorption
- D. Xylidyl blue (Magon)
- E. Formazon dye
- F. Chlorophosphonazo III
- G. Arsenazo dye
- Z. Other

IRON

- A. Bathophenanthroline
- B. Ferrachrome/Ferrozine iron reagent
- C. Tripyridyltriazine (TPZ)
- D. Coulometric
- E. Pyridylazo dye
- F. Ferene
- G. Nitroso-PSAP
- Z. Other

SODIUM AND POTASSIUM

- A. Ion selective electrode (diluted)
- B. Ion selective electrode (undiluted)
- C. Flame emission photometry
- D. Ion selective electrode (flame mode)
- Z. Other

CHLORIDE

- A. Ion selective electrode (diluted)
- B. Ion selective electrode (undiluted)
- C. Coulometric-amperometric titration
- D. Mercuric/ferric thiocyanate
- E. Mercuric nitrate, diphenylcarbazone
- F. Mercuric TPTZ
- G. Ferric nitrite/methanesulfonic acid
- H. Ferric perchlorate/methanesulfonic acid
- Z. Other

ALBUMIN

- A. Bromocresol green dye binding
- B. Bromocresol purple dye binding
- C. Nephelometric
- Z. Other

TOTAL PROTEIN

- A. Biuret (alkaline cupric sulfate)
- B. Refractometry
- Z. Other

CHOLESTEROL

- A. Enzymatic
- B. Liebermann-Burchard reaction
- Z. Other

HDL-CHOLESTEROL

- M. Electrophoresis
- ENZYMATIC DETERMINATION/SEPARATION BY:**
- PRECIPITATION-BASED METHODS**
- A. Heparin/Manganese precipitation
 - B. Dextran sulfate precipitation
 - J. Dextran sulfate w/ magnetic separation
 - C. Phosphotungstic acid precipitation
 - Z. Other precipitation method
- HOMOGENEOUS METHODS**
- D. Polyanion-polymer complex
 - E. Modified enzymatic
 - F. Elimination
 - G. Immunoinhibition
 - H. Liquid selective detergent
 - L. Accelerator selective detergent
 - K. Ultracentrifugation
 - W. Other homogeneous method

Clinical Chemistry - Method Principle Codes

LDL-CHOLESTEROL

- A. Friedewald formula [LDL=Chol-HDL-(Trig÷5)]
- E. DeLong formula [LDL=Chol-HDL-(Trig÷6)]
- C. Electrophoresis
- D. Ultracentrifugation
- G. Precipitation - Magnetic separation
- Z. Other precipitation method
- B. Homogeneous - Elimination
- H. Homogeneous - Liquid selective detergent
- L. Homogeneous - Accelerator selective detergent
- W. Other homogeneous method

TRIGLYCERIDES

WITHOUT CORRECTION FOR FREE GLYCEROL:

- A. Enzymatic (with lactate dehydrogenase)
- B. Enzymatic (with peroxidase)
- C. Enzymatic (glycerol phosphate dehydrogenase/diaphorase)
- D. Enzymatic (glycerol dehydrogenase/ diaphorase)
- J. Enzymatic (glycerol dehydrogenase)
- K. Enzymatic (glycerol phosphate oxidase)
- W. Other

WITH CORRECTION FOR FREE GLYCEROL:

- E. Enzymatic (with lactate dehydrogenase)
- F. Enzymatic (with peroxidase)
- G. Enzymatic (glycerol phosphate dehydrogenase/diaphorase)
- H. Enzymatic (glycerol dehydrogenase/ diaphorase)
- M. Enzymatic (glycerol dehydrogenase)
- N. Enzymatic (glycerol phosphate oxidase)
- Z. Other

HOMOCYSTEINE (TOTAL)

- A. Fluorescence Polarization Immunoassay (FPIA)
- B. Enzyme Immunoassay (EIA)
- C. Enzymatic assay
- D. HPLC with electrochemical detection
- E. HPLC with fluorimetric detection
- F. Chemiluminescent Immunoassay
- Z. Other

ALANINE AMINOTRANSFERASE

- A. Kinetic WITHOUT PYRIDOXAL PHOSPHATE - (lactate dehydrogenase/NADH)
- B. Kinetic WITH PYRIDOXAL PHOSPHATE - (lactate dehydrogenase/NADH)
- C. Colorimetric (dinitrophenylhydrazine)
- D. Kinetic (peroxidase)
- Z. Other

ASPARTATE AMINOTRANSFERASE

- A. Kinetic WITHOUT PYRIDOXAL PHOSPHATE - (malate dehydrogenase/NADH)
- B. Kinetic WITH PYRIDOXAL PHOSPHATE - (malate dehydrogenase/NADH)
- C. Kinetic (leuco dye)
- Z. Other

α-AMYLASE

- A. Chromogenic (p-nitrophenyl-substrate)
- B. Chromogenic ("blocked" p-nitrophenyl-substrate)
- C. Enzymatic/saccharogenic (maltose phosphorylase)
- D. Enzymatic/saccharogenic (hexokinase)
- E. Turbidimetric
- F. Chromogenic (drimarene red-amylopectin)
- G. Enzymatic/CNPG3
- Z. Other

ALKALINE PHOSPHATASE

- A. 4-Nitrophenyl phosphate (pNPP)/AMP (2-Amino-2-methyl-1-propanol) buffer
- B. 4-Nitrophenyl phosphate (pNPP)/2-amino-2-methyl-1,3-propanediol buffer
- C. 4-Nitrophenyl phosphate (pNPP)/DEA (diethanolamine) buffer
- D. 4-Nitrophenyl phosphate (pNPP)/carbonate buffer
- E. 4-Nitrophenyl phosphate (pNPP)/N-Acetylglucamine buffer
- F. Naphthyl monophosphate
- Z. Other

γ-GLUTAMYLTRANSFERASE

- A. L-γ-glutamyl-3-carboxy-4-nitroanalide/glycylglycine
- B. L-γ-glutamyl-4-nitroanalide/glycylglycine
- Z. Other

CREATINE KINASE

- A. Creatine phosphate/NADP
- B. Creatine phosphate/NAD
- C. Creatine phosphate/glycerol kinase/peroxidase
- Z. Other

CREATINE KINASE ISOENZYME MB

- A. Mass measurement (results in ng/mL)
- P. Electrophoresis (results in %)

ACTIVITY MEASUREMENT (results in U/L);

SEPARATION BY:

- B. Immunochemical inhibition (U/L)
- C. Immunochemical precipitation (U/L)
- D. Electrophoresis (U/L)
- E. Column chromatography (U/L)
- Z. Other activity measurement (U/L)

LACTATE DEHYDROGENASE

- A. Lactate to pyruvate
- B. Pyruvate to lactate

LACTATE DEHYDROGENASE ISOENZYME 1

- P. Electrophoresis (results in %)

LACTATE TO PYRUVATE REACTION (U/L);

SEPARATION BY:

- A. Immunochemical inhibition
- B. Immunochemical precipitation
- E. Electrophoresis (results in U/L)
- F. Column chromatography
- G. Chemical inhibition
- W. Other

PYRUVATE TO LACTATE REACTION (U/L);

SEPARATION BY:

- H. Immunochemical inhibition
- J. Immunochemical precipitation
- K. Electrophoresis (results in U/L)
- L. Column chromatography
- M. Chemical inhibition
- Z. Other