

CHOLESTEROL

Enzymatic-spectrophotometric
CHOLESTEROL OXIDASE/PEROXIDASE

Instrument: **ELECTA**

Principle of the method

Free and esterified cholesterol in the sample originates, by means of some coupled reactions, a coloured complex that can be measured by spectrophotometry.

Samples

Serum or plasma.

Stable for 7 days at 2-8°C.

Heparin, EDTA, oxalate and fluoride may be used as anticoagulants.

Reagent preparation

Reagent is ready to be used

Performance characteristics

- Interferences: Hemoglobin (3 g/L), ascorbic acid (0.3 mmol/L) and bilirubin (0.25 mmol/L) interfere. Lipemia does not affect results.
- Linearity: Up to 1000 mg/dL.

Instrument settings

TEST-ID	: COL
DESCRIPCION	: COLESTEROL
UNIDADES	: MG/DL
Limite inferior (unidades)	: 123
Limite superior (unidades)	: 243
Limite inferior de ABS. Del Rv.	: 0
Limite superior de ABS. Del Rv.	: 5
MODO	: Pto. Final
Sustraccion del Blanco (1=si)	: 1
Limite de Linealidad	: 800
1er. Filtro (nm)	: 500
Volumen de Muestra (µL)	: 5
Volumen del Reactivo-I (µL)	: 500
Posicion del Reactivo-I (1-20)	: 8
Factor	: A calcular
Concentracion del Standard	: 200
Pos. Del Standard (1-16) [*]	: 1*
Numero de STD (1-2)	: 1
Tpo. De retardo inicial (seg.)	: 1
Tiempo de Incubacion (seg.) [*]	: 300
Numero de Decimales (0-4)	:
Graba factor Calib. (si=1)	: 1
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 2
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
Nº de lavados del sist. de muest. (1-9)	: 2
Nº de lavados del sist. de aspir. (2-4)	: 2
Control 1 VALORES BAJOS 39	
Control 1 VALORES ALTOS 391	
Control 2 VALORES BAJOS 0	
Control 2 VALORES ALTOS 0	

CREATINE KINASE (CK)

Continuous-spectrophotometric
IFCC

Instrument: **ELECTA**

Principle of the method

Creatine kinase (CK) catalyzes the phosphorylation of ADP, in the presence of creatine phosphate, to form ATP and creatine. The catalytic concentration is determined from the rate of NADPH formation, measured at 340 nm, by means of the hexokinase (HK) and glucose-6-phosphate coupled reactions.

Samples

Serum.

Creatine kinase in serum is stable for 7 days at 2-8°C.

Reagent preparation

Working Reagent: Empty the contents of a Reagent B bottle into a Reagent A bottle. Swirl gently.

Stable for 15 days at 2-8°C.

Performance characteristics

- Linearity: up to 900 U/L.

Instrument settings

TEST-ID	: CK
DESCRIPCION	: Creat. Kinase
UNIDADES	: U/L
Limite inferior (unidades)	: 24
Limite superior (unidades)	: 195
Limite inferior de ABS. Del Rv.	: 9
Limite superior de ABS. Del Rv.	: 1.9
MODO	: Cin.
Sustraccion del Blanco (1=si)	:
Limite de Linealidad	: 2000
1er. Filtro (nm)	: 340
Volumen de Muestra (µL)	: 20
Volumen del Reactivo-I (µL)	: 400
Posicion del Reactivo-I (1-20)	: 18
Factor	: 4127
Concentracion del Standard	: 0
Tpo. De retardo inicial (seg.)	: 12
Duracion de la lectura (seg.)	: 120
Tiempo de Incubacion (seg.) [*]	: 180
Numero de Decimales (0-4)	:
Graba factor Calib. (si=1)	: 1
Incremento de ABS. (0) ; Dism. (1)	:
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 1
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
Nº de lavados del sist. de muest. (1-9)	: 4
Nº de lavados del sist. de aspir. (2-4)	: 3
Control 1 VALORES BAJOS 0	
Control 1 VALORES ALTOS 0	
Control 2 VALORES BAJOS 0	
Control 2 VALORES ALTOS 0	
Control 3 VALORES BAJOS 0	
Control 3 VALORES ALTOS 0	

CREATININE

Kinetic-spectrophotometric
ALKALINE PICRATE

Instrument: **Electa**

Principle of the method

Creatinine in the sample reacts with picrate in alkaline medium forming a coloured complex. The complex formation rate is measured in a short period to avoid interferences.

Samples

Serum, plasma, urine.

Creatinine in serum or plasma is stable for 24 hours at 2-8°C.

Heparin, EDTA, oxalate and fluoride may be used as anticoagulants.

Reagent preparation

Working Reagent: Mix equal volumes of Reagent A and Reagent B. Mix thoroughly.

Stable for 2 months at 2-8°C.

Performance characteristics

- Interferences: Hemoglobin (0.1 g/L), bilirubin (10 mg/dL), protein and ketonic bodies do not interfere.
- Linearity: Up to 20 mg/dL (serum or plasma).

TEST-ID	: CRE
DESCRIPCION	: CREATININA
UNIDADES	: MG/DL
Limite inferior (unidades)	: 0.6
Limite superior (unidades)	: 1.1
Limite inferior de ABS. Del Rv.	: 0
Limite superior de ABS. Del Rv.	: 1.6
MODO	: Dos Pto.
Sustraccion del Blanco (1=si)	:
Limite de Linealidad	: 20
1er. Filtro (nm)	: 500
Volumen de Muestra (µL)	: 50
Volumen del Reactivo-I (µL)	: 500
Posicion del Reactivo-I (1-20)	: 15
Factor	: A calcular
Concentracion del Standard	: 2
Pos. Del Standard (1-16) [*]	: 4
Numero de STD (1-2)	: 1
Tpo. De retardo inicial (seg.)	: 12
Duracion de la lectura (seg.)	: 25
Tiempo de Incubacion (seg.) [*]	: 60
Numero de Decimales (0-4)	: 2
Graba factor Calib. (si=1)	: 1
Incremento de ABS. (0) ; Dism. (1)	:
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 2
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
Nº de lavados del sist. de muest. (1-9)	: 6
Nº de lavados del sist. de aspir. (2-4)	: 4
Control 1 VALORES BAJOS 0	
Control 1 VALORES ALTOS 2	
Control 2 VALORES BAJOS 0	

Instrument settings

PHOSPHORUS

Spectrophotometric
PHOSPHOMOLYBDATE/UV

Instrument: **ELECTA**

Principle of the method

Inorganic phosphorus in the sample reacts with molybdate in acid medium forming a phosphomolybdate complex that can be measured by spectrophotometry.

Samples

Serum, plasma, urine.

Phosphorus in serum or plasma is stable for 7 days at 2-8°C. EDTA and fluoride may be used as anticoagulants.

Reagent preparation

Reagent 1: Use the Reagent A.

Reagent 2: Use the Reagent B.

Performance characteristics

- Interferences: Do not use hemolyzed sera.

- Linearity: Up to 20 mg/dL.

Instrument settings

TEST-ID	: FOS
DESCRIPCION	: FOSFORO
UNIDADES	: MG/DL
Limite inferior (unidades)	: 2.7
Limite superior (unidades)	: 4.5
Limite inferior de ABS. Del Rv.	: 1
Limite superior de ABS. Del Rv.	: 1.9
MODO	: Pto. Final
Sustraccion del Blanco (1=si)	:
Limite de Linealidad	: 20
1er. Filtro (nm)	: 340
Volumen de Muestra (µL)	: 6
Volumen del Reactivo-I (µL)	: 600
Posicion del Reactivo-I (1-20)	: 17
Factor	: 0
Concentracion del Standard	: 5
Pos. Del Standard (1-16) [*]	: 9
Numero de STD (1-2)	: 1
Tpo. De retardo inicial (seg.)	: 20
Tiempo de Incubacion (seg.) [*]	: 300
Numero de Decimales (0-4)	: 2
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 2
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
Nº de lavados del sist. de muestr. (1-9)	: 4
Nº de lavados del sist. de aspir. (2-4)	: 4
Control 1 VALORES BAJOS	0
Control 1 VALORES ALTOS	0
Control 2 VALORES BAJOS	0
Control 2 VALORES ALTOS	0
Control 3 VALORES BAJOS	0
Control 3 VALORES ALTOS	0

GAMMA-GLUTAMYLTRANSFERASE (γ -GT)

Continuous-spectrophotometric
IFCC

Instrument: **Electa**

Principle of the method

Gamma-glutamyltransferase (γ -GT) catalyzes the transfer of the γ -glutamyl group from γ -glutamyl-3-carboxy-4-nitroanilide to glycylglycine, liberating 3-carboxy-4-nitroaniline. The catalytic concentration is determined from the rate of 3-carboxy-4-nitroaniline formation.

Samples

Serum.

Gamma-glutamyltransferase in serum is stable for 5 days at 2-8°C.

Reagent preparation

Working Reagent: Reconstitute the contents of a Reagent B vial with 15 mL (if 10x15 mL size) or 50 mL (if 4x50 mL size) of Reagent A. Swirl gently. Stable for 2 months at 2-8°C.

Performance characteristics

- Linearity: up to 300 U/L.

Instrument settings

TEST-ID	: GGT
DESCRIPCION	: GAMMA GT
UNIDADES	: U/L
Limite inferior (unidades)	: 15
Limite superior (unidades)	: 60
Limite inferior de ABS. Del Rv.	: 0
Limite superior de ABS. Del Rv.	: 8
MODO	: Cin.
Sustraccion del Blanco (1=si)	:
Limite de Linealidad	: 300
1er. Filtro (nm)	: 405
Volumen de Muestra (μL)	: 40
Volumen del Reactivo-I (μL)	: 400
Posicion del Reactivo-I (1-20)	: 1
Factor	: 1391
Concentracion del Standard	: 0
Tpo. De retardo inicial (seg.)	: 2
Duracion de la lectura (seg.)	: 120
Tiempo de Incubacion (seg.) [*]	: 30
Numero de Decimales (0-4)	:
Graba factor Calib. (si=1)	: 1
Incremento de ABS. (0) ; Dism. (1)	:
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 1
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
N° de lavados del sist. de muest. (1-9)	: 4
N° de lavados del sist. de aspir. (2-4)	: 4
Control 1 VALORES BAJOS 0	
Control 1 VALORES ALTOS 0	
Control 2 VALORES BAJOS 100	
Control 2 VALORES ALTOS 260	
Control 3 VALORES BAJOS 0	
Control 3 VALORES ALTOS 0	

ASPARTATE AMINOTRANSFERASE (AST)

Continuous-spectrophotometric
IFCC

Instrument: **ELECTA**

Principle of the method

Aspartate aminotransferase (AST or GOT) catalyzes the transfer of the amino group from aspartate to 2-oxoglutarate, forming oxalacetate and glutamate. The catalytic concentration is determined from the rate of decrease of NADH, measured at 340 nm, by means of the malate dehydrogenase (MDH) coupled reaction.

Samples

Serum.

Aspartate aminotransferase in serum is stable for 7 days at 2-8°C.

Reagent preparation

Working Reagent: Pour the contents of the Reagent B into the Reagent A bottle. Mix gently.

Stable for 2 months at 2-8°C.

Performance characteristics

- Interferences: High pyruvate in the sample will consume NADH during the delay time before measurements, reducing the linearity of the method.
- Linearity: Up to 750 U/L.

Instrument settings

TEST-ID	: GOT
DESCRIPCION	: GOT/AST
UNIDADES	: U/L
Limite inferior (unidades)	: 5
Limite superior (unidades)	: 46
Limite inferior de ABS. Del Rv.	: .9
Limite superior de ABS. Del Rv.	: 1.9
MODO	: Cin.
Sustraccion del Blanco (1=si)	:
Limite de Linealidad	: 200
1er. Filtro (nm)	: 340
Volumen de Muestra (µL)	: 20 / 30
Volumen del Reactivo-I (µL)	: 400 / 600
Posicion del Reactivo-I (1-20)	: 2
Factor	: 3333
Concentracion del Standard	: 0
Tpo. De retardo inicial (seg.)	: 2
Duracion de la lectura (seg.)	: 60
Tiempo de Incubacion (seg.) [*]	: 180
Numero de Decimales (0-4)	:
Graba factor Calib. (si=1)	: 1
Incremento de ABS. (0) ; Dism. (1)	: 1
Deplecion nivel ABS. Del sustrato	: .8
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 1
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
N° de lavados del sist. de muest. (1-9)	: 3
N° de lavados del sist. de aspir. (2-4)	: 3
Control 1 VALORES BAJOS 0	
Control 1 VALORES ALTOS 0	
Control 2 VALORES BAJOS 100	
Control 2 VALORES ALTOS 260	
Control 3 VALORES BAJOS 10	
Control 3 VALORES ALTOS 120	

ALANINE AMINOTRANSFERASE (ALT)

Continuous-spectrophotometric
IFCC

Instrument: **ELECTA**

Principle of the method

Alanine aminotransferase (ALT or GPT) catalyzes the transfer of the amino group from alanine to 2-oxoglutarate, forming pyruvate and glutamate. The catalytic concentration is determined from the rate of decrease of NADH, measured at 340 nm, by means of the lactate dehydrogenase (LDH) coupled reaction.

Samples

Serum.

Alanine aminotransferase in serum is stable for 7 days at 2-8°C.

Reagent preparation

Working Reagent: Pour the contents of the Reagent B into the Reagent A bottle. Mix gently.

Stable for 2 months at 2-8°C.

Performance characteristics

- Interferences: High pyruvate in the sample will consume NADH during the delay time before measurements, reducing the linearity of the method.
- Linearity: Up to 750 U/L.

Instrument settings

TEST-ID	: GPT
DESCRIPCION	: GPT/ALT
UNIDADES	: U/L
Limite inferior (unidades)	: 5
Limite superior (unidades)	: 50
Limite inferior de ABS. Del Rv.	: .9
Limite superior de ABS. Del Rv.	: 1.9
MODO	: Cin.
Sustraccion del Blanco (1=si)	:
Limite de Linealidad	: 200
1er. Filtro (nm)	: 340
Volumen de Muestra (µL)	: 30
Volumen del Reactivo-I (µL)	: 600
Posicion del Reactivo-I (1-20)	: 3
Factor	: 3333
Concentracion del Standard	: 0
Tpo. De retardo inicial (seg.)	: 2
Duracion de la lectura (seg.)	: 120
Tiempo de Incubacion (seg.) [*]	: 60
Numero de Decimales (0-4)	:
Graba factor Calib. (si=1)	: 1
Incremento de ABS. (0) ; Dism. (1)	: 1
Deplecion nivel ABS. Del sustrato	: .8
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 1
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
N° de lavados del sist. de muestr. (1-9)	: 3
N° de lavados del sist. de aspir. (2-4)	: 3
Control 1 VALORES BAJOS 0	
Control 1 VALORES ALTOS 0	
Control 2 VALORES BAJOS 100	
Control 2 VALORES ALTOS 260	
Control 3 VALORES BAJOS 10	
Control 3 VALORES ALTOS 100	

IRON
Spectrophotometric
FERROZINE

Instrument: ELECTA

Principle of the method

Transferrin-bound ferric ions in the sample are released by guanidinium and reduced to ferrous by means of hydroxylamine. Ferrous ions react with ferrozine forming a coloured complex that can be measured by spectrophotometry.

Samples

Serum or heparinized plasma.
Stable for 7 days at 2-8°C.

Reagent preparation

Reagent 1: Use the Reagent A.
Reagent 2: Use the Reagent B.

Performance characteristics

- Interferences: Do not use hemolyzed sera.
- Linearity: Up to 1000 µg/dL.

Instrument settings

TEST-ID	: FER
DESCRIPCION	: HIERRO
UNIDADES	: UG/DL
Limite inferior (unidades)	: 55
Limite superior (unidades)	: 158
Limite inferior de ABS. Del Rv.	: 0
Limite superior de ABS. Del Rv.	: 3
MODO	: Pto. F.
Sustraccion del Blanco (1=si)	: 1
Limite de Linealidad	: 1000
1er. Filtro (nm)	: 570
Volumen de Muestra (µL)	: 80
Volumen del Reactivo-I (µL)	: 400
Posicion del Reactivo-I (1-20)	: 1
Factor	: 2323.4
Concentracion del Standard	: 100
Pos. Del Standard (1-16) [*]	: 10
Preincubación (sec)	: 2
Tiempo de Incubacion (seg.) [*]	: 120
Numero de Decimales (0-4)	: 2
Factor de dilucion	: 1:2
FACTOR DE CORRECCION	: 0
Mezclado	: 1

LACTATE DEHYDROGENASE (LD/LDH)

Continuous-spectrophotometric
PYRUVATE

Instrument: **ELECTA**

Principle of the method

Lactate dehydrogenase (LD or LDH) catalyzes the reduction of pyruvate by NADH, to form lactate and NAD⁺. The catalytic concentration is determined from the rate of decrease of NADH, measured at 340 nm.

Samples

Serum or plasma.

Lactate dehydrogenase in serum or plasma is stable for 24 hours at 2-8°C.

Heparin may be used as anticoagulant.

Reagent preparation

Working Reagent: Reconstitute the contents of a Reagent B vial with 3 mL (if 20x3 mL size) or 15 mL (if 10x15 mL size) of Reagent A. Swirl gently.

Stable for 2 months at 2-8°C.

Performance characteristics

- Interferences: Hemolysis interferes due to the high lactate dehydrogenase concentration in red cells.
- Linearity: Up to 1850 U/L.

Instrument settings

TEST-ID	: LDH
DESCRIPCION	: LDH
UNIDADES	: U/L
Limite inferior (unidades)	: 207
Limite superior (unidades)	: 414
Limite inferior de ABS. Del Rv.	: 9
Limite superior de ABS. Del Rv.	: 1.9
MODO	: Cin.
Sustraccion del Blanco (1=si)	:
Limite de Linealidad	: 1650
1er. Filtro (nm)	: 340
Volumen de Muestra (µL)	: 10
Volumen del Reactivo-I (µL)	: 500
Posicion del Reactivo-I (1-20)	: 14
Factor	: 9683
Concentracion del Standard	: 0
Tpo. De retardo inicial (seg.)	: 12
Duracion de la lectura (seg.)	: 120
Tiempo de Incubacion (seg.) [*]	: 30
Numero de Decimales (0-4)	:
Graba factor Calib. (si=1)	: 1
Incremento de ABS. (0) ; Dism. (1)	: 1
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 1
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
N° de lavados del sist. de muest. (1-9)	: 4
N° de lavados del sist. de aspir. (2-4)	: 3
Control 1 VALORES BAJOS 0	
Control 1 VALORES ALTOS 0	
Control 2 VALORES BAJOS 100	
Control 2 VALORES ALTOS 260	
Control 3 VALORES BAJOS 0	
Control 3 VALORES ALTOS 0	

PROTEIN

Spectrophotometric
BIURET

Instrument: **Electa**

Principle of the method

Protein in the sample reacts with copper (II) ion in alkaline medium forming a coloured complex that can be measured by spectrophotometry.

Samples

Serum, heparinized plasma.

Stable for 8 days at 2-8°C.

Anticoagulants other than heparin should not be used.

Reagent preparation

Reagent is ready to be used.

Performance characteristics

- Interferences: Hemoglobin (0.2 g/L) and bilirubin (15 mg/dL) interfere. Moderate lipemia does not affect the results.
- Linearity: Up to 150 g/L.

Instrument settings

TEST-ID	: PT
DESCRIPCION	: PROTEINAS T.
UNIDADES	: G/DL
Limite inferior (unidades)	: 65
Limite superior (unidades)	: 80
Limite inferior de ABS. Del Rv.	: 0
Limite superior de ABS. Del Rv.	: 1
MODO	: Pto. F.
Sustraccion del Blanco (1=si)	: 1
Limite de Linealidad	: 12
1er. Filtro (nm)	: 545
Volumen de Muestra (µL)	: 10
Volumen del Reactivo-I (µL)	: 500
Posicion del Reactivo-I (1-20)	: 9
Factor	: A calcular
Concentracion del Standard	: 70
Pos. Del Standard (1-16) [*]	: 6
Numero de STD (1-2)	: 2
Tpo. De retardo inicial (seg.)	: 1
Tiempo de Incubacion (seg.) [*]	: 600
Numero de Decimales (0-4)	: 1
Graba factor Calib. (si=1)	: 1
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 2
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
N° de lavados del sist. de muestr. (1-9)	: 4
N° de lavados del sist. de aspir. (2-4)	: 4
Control 1 VALORES BAJOS 2	
Control 1 VALORES BAJOS 12	
Control 2 VALORES BAJOS 0	
Control 2 VALORES ALTOS 0	

PROTEIN

Spectrophotometric
BIURET

Instrument: **Electa**

Principle of the method

Protein in the sample reacts with copper (II) ion in alkaline medium forming a coloured complex that can be measured by spectrophotometry.

Samples

Serum, heparinized plasma.

Stable for 8 days at 2-8°C.

Anticoagulants other than heparin should not be used.

Reagent preparation

Reagent is ready to be used.

Performance characteristics

- Interferences: Hemoglobin (0.2 g/L) and bilirubin (15 mg/dL) interfere. Moderate lipemia does not affect the results.
- Linearity: Up to 150 g/L.

Instrument settings

TEST-ID	: PT
DESCRIPCION	: PROTEINAS T.
UNIDADES	: G/DL
Limite inferior (unidades)	: 65
Limite superior (unidades)	: 80
Limite inferior de ABS. Del Rv.	: 0
Limite superior de ABS. Del Rv.	: 1
MODO	: Pto. F.
Sustraccion del Blanco (1=si)	: 1
Limite de Linealidad	: 12
1er. Filtro (nm)	: 545
Volumen de Muestra (µL)	: 10
Volumen del Reactivo-I (µL)	: 500
Posicion del Reactivo-I (1-20)	: 9
Factor	: A calcular
Concentracion del Standard	: 70
Pos. Del Standard (1-16) [*]	: 6
Numero de STD (1-2)	: 2
Tpo. De retardo inicial (seg.)	: 1
Tiempo de Incubacion (seg.) [*]	: 600
Numero de Decimales (0-4)	: 1
Graba factor Calib. (si=1)	: 1
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 2
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
N° de lavados del sist. de muestr. (1-9)	: 4
N° de lavados del sist. de aspir. (2-4)	: 4
Control 1 VALORES BAJOS 2	
Control 1 VALORES BAJOS 12	
Control 2 VALORES BAJOS 0	
Control 2 VALORES ALTOS 0	

TRIGLYCERIDES

Enzymatic-spectrophotometric
GLYCEROL PHOSPHATE OXIDASE/PEROXIDASE

Instrument: **ELCTA**

Principle of the method

Triglycerides in the sample originates, by means of some coupled reactions, a coloured complex that can be measured by spectrophotometry.

Samples

Serum or plasma.

Stable for 5 days at 2-8°C.

Heparin, EDTA, oxalate and fluoride may be used as anticoagulants.

Reagent preparation

Reagent is ready to be used

Performance characteristics

- Interferences: Hemoglobin (3 g/L), ascorbic acid (0.3 mmol/L) and bilirubin (0.25 mmol/L) interfere. Lipemia does not affect results.
- Linearity: Up to 600 mg/dL.

Instrument settings

TEST-ID	: TRI
DESCRIPCION	: TRIGLICERIDOS
UNIDADES	: MG/DL
Limite inferior (unidades)	: 60
Limite superior (unidades)	: 150
Limite inferior de ABS. Del Rv.	: .1
Limite superior de ABS. Del Rv.	: 1.9
MODO	: Pto. Final
Sustraccion del Blanco (1=si)	: 1
Limite de Linealidad	: 600
1er. Filtro (nm)	: 505
Volumen de Muestra (µL)	: 5
Volumen del Reactivo-I (µL)	: 500
Posicion del Reactivo-I (1-20)	: 6
Factor	: 0
Concentracion del Standard	: 200
Pos. Del Standard (1-16) [*]	: 8
Numero de STD (1-2)	: 1
Tpo. De retardo inicial (seg.)	: 2
Tiempo de Incubacion (seg.) [*]	: 300
Numero de Decimales (0-4)	:
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 2
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
N° de lavados del sist. de muest. (1-9)	: 2
N° de lavados del sist. de aspir. (2-4)	: 3
Control 1 VALORES BAJOS	48
Control 1 VALORES ALTOS	340
Control 2 VALORES BAJOS	0
Control 2 VALORES ALTOS	0

UREA/BUN

Enzymatic-spectrophotometric
ULTRAVIOLET

Instrument: **ELECTA**

Principle of the method

Urea in the sample consumes, by means of some coupled reactions, NADH that can be measured by spectrophotometry.

Samples

Serum, plasma, urine.

Stable for 7 days at 2-8°C.

Heparin is recommended as anticoagulant.

Reagent preparation

Working Reagent: Transfer the contents of one Reagent B vial into a Reagent A bottle. Mix thoroughly.

Stable for 2 months at 2-8°C.

Performance characteristics

- Interferences: Ammonium salts of the anticoagulants interfere.

- Linearity: Up to 300 mg/dL.

Instrument settings

TEST-ID	: URE
DESCRIPCION	: UREA
UNIDADES	: MG/DL
Limite inferior (unidades)	: 10
Limite superior (unidades)	: 50
Limite inferior de ABS. Del Rv.	: 5
Limite superior de ABS. Del Rv.	: 1.8
MODO	: Cin.
Sustraccion del Blanco (1=si)	: 1
Limite de Linealidad	: 300
1er. Filtro (nm)	: 340
Volumen de Muestra (µL)	: 4
Volumen del Reactivo-I (µL)	: 600
Posicion del Reactivo-I (1-20)	: 5
Factor	: 1324.6
Concentracion del Standard	: 96.5
Pos. Del Standard (1-16) [*]	: 1*
Numero de STD (1-2)	: 1
Tpo. De retardo inicial (seg.)	: 12
Duracion de la lectura (seg.)	: 25
Tiempo de Incubacion (seg.) [*]	: 60
Numero de Decimales (0-4)	:
Graba factor Calib. (si=1)	: 1
Incremento de ABS. (0) ; Dism. (1)	: 1
Mezclado (si=1 no=0)	: 0
Numero de Blancos (1-2)	: 1
Factor de dilucion	: 2
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 0
N° de lavados del sist. de muestr. (1-9)	: 4
N° de lavados del sist. de aspir. (2-4)	: 3
Control 1 VALORES BAJOS 7	
Control 1 VALORES ALTOS 29	
Control 2 VALORES BAJOS 0	
Control 2 VALORES ALTOS 0	

URIC ACID

Enzymatic-spectrophotometric
URICASE/PEROXIDASE

Instrument: **Electa**

Principle of the method

Uric acid in the sample originates, by means of some coupled reactions, a coloured complex that can be measured by spectrophotometry.

Samples

Serum, heparinized plasma.

Magnesium in serum or plasma is stable for 10 days at 2-8°C.

Anticoagulants other than heparin should not be used.

Reagent preparation

Reagent is ready to be used.

Performance characteristics

- Interferences: Hemoglobin (1 g/L), ascorbic acid (0.3 mmol/L) and bilirubin (15 mg/dL) do not interfere. Lipemia may affect the results
- Linearity: Up to 25 mg/dL.

Instrument settings

TEST-ID	: AU
DESCRIPCION	: ACIDO URICO
UNIDADES	: MG/L
Limite inferior (unidades)	: 24
Limite superior (unidades)	: 70
Limite inferior de ABS. Del Rv.	: .1
Limite superior de ABS. Del Rv.	: 1.9
MODO	: Pto. Final
Sustraccion del Blanco (1=si)	: 1
Limite de Linealidad	: 250
1er. Filtro (nm)	: 520
Volumen de Muestra (µL)	: 10
Volumen del Reactivo-I (µL)	: 400
Posicion del Reactivo-I (1-20)	: 12
Factor	: 0
Concentracion del Standard	: 60
Pos. Del Standard (1-16) [*]	: 7
Numero de STD (1-2)	: 1
Tpo. De retardo inicial (seg.)	: 4
Tiempo de Incubacion (seg.) [*]	: 300
Numero de Decimales (0-4)	: 0
Mezclado (si=1 no=0)	: 2
Numero de Blancos (1-2)	: 2
Factor de dilucion	: 0
FACTOR DE CORRECCION	: 0
REPETIR AUTOM. C.C. CADA (?)	: 2
N° de lavados del sist. de muest. (1-9)	: 2
N° de lavados del sist. de aspir. (2-4)	: 2
Control 1	VALORES BAJOS 13
Control 1	VALORES ALTOS 111
Control 2	VALORES BAJOS 0
Control 2	VALORES ALTOS 0