

Photometer 4040 v5+

- Manual photometric system for standard cuvettes
- NEW! With long lifetime LED technology
- Temperature controlled measuring cell and dry incubation block with 6 positions
- Reagent-open system with high capacity for programmable methods
- Teach-in capability for reagent applications via touchscreen
- Bar code reader system for an easy handling of patient data
- Minimum measuring volume 500 µl, reducible to 250 µl
- Future-proof operating system can easily be upgraded



NOW WITH LED

Type

Single-beam filter photometer

Light Source

LED with long lifetime

Wavelength

340 nm and 390nm - 730 nm

Wavelength Selection

Automatic via 9-position filter wheel : 6 standard interference filters: 340 nm, 405 nm, 546 nm, 578 nm, 623 nm and 700 nm
3 positions for optional filters of choice

Photometric Range

0 - 2.5 A

Cuvette System

Normal standard cuvettes (macro or semi-micro, disposable or special optical glass)

Temperature Control

Measuring cell as well as dry incubation block with 6 positions temperature controlled by electrical thermostat at 37 °C

Operator Interface

Touchscreen for direct functions and alphanumerical inputs

Data Presentation

Graphic display: white characters or symbols, blue background, lighted, resolution 240 x 128 dots

Integrated Printer

Thermal printer, 24 characters per line

Languages

English and Italian

Quality Control

Up to 50 methods can be controlled with two control serums, Levey Jennings plot

Memory

- General operating software can be updated by PC
- Reagent-open system with capacity for up to 231 programmable methods
- Data import by touchscreen or PC
- Up to 50 nonlinear calibration curves with max 20 sets of points can be stored

Signal Port

- Serial port for connection to an external printer and/or PC
- for connection of a bar code reader

Data Logging

Up to 1000 results can be saved in the memory automatically

Measurement Procedures

- Absorbance
- End point with factor, standard or multiple standards, with or without reagent blank and/or sample blank
- Bichromatic end point
- Kinetics with factor, standard or multiple standards, with or without blank
- Fixed time with factor, standard or multiple standards, with or without reagent blank
- Turbidimetry with optional timer function
- Single, double and triple determinations
- Curve fitting for nonlinear standard curves
- Free hemoglobin in combination with optional interference filters

Measuring Time

- Kinetic: variable from 3 - 19 deltas, time per delta 3 - 255 s
- Fixed time: variable from 0 - 1800 s

Delay Time

Programmable from 0 - 1800 s

Mains Supply

Range: 100 VAC up to 240 VAC at 50/60 Hz

Dimensions

Length 33 cm
x width 34 cm
x height 18 cm

Weight

4.8 kg

Analytes

A1G, ALB, AMN, AMY-P, ANT III, ASO, C3, C4, CC, CK-MB, CPZ, CRP, CTI, Cu, D-D, DX, EAL, FIB, G6-PDH, HbA1C, HCY, IgA, IgE, IgG, IgM, K, KAPPA S/U, LAMBDA S/U, Li, Lip, Mg, MGS, MIA, Na, PHB, PUR, RT, TBA, TRF, VPA, Zn, β 2-m

Marking



ELECTROLYTES

<i>Products</i>	<i>Ref</i>	<i>Kit size</i>	<i>Method</i>	<i>Linearity Range</i>
Magnesium <i>Liquid mono Reagent</i>	V5.1MG25	25 Test	Xylidil Blue	3-50 mmol/L
Potassium <i>Liquid 2 Part Reagent</i>	V5.1K20	20 Test	Enzymatic	2-8 mmol/L
Copper <i>Liquid mono Reagent</i>	V5.1CU20	20 Test	Colorimetrico Dibrom -Paesa	0,00-500 ug/dL
Sodium <i>Liquid 2 Part Reagent</i>	V5.1NA20	20 Test	Enzymatic	80-180mmol/L
Zinc <i>Liquid mono Reagent</i>	V5.1ZN20	20 Test	Colorimetrico 5-brom -Paps	0-400 ug/dL

DRUGS

<i>Products</i>	<i>Ref</i>	<i>Kit size</i>	<i>Method</i>	<i>Linearity Range</i>
Valproic Acid <i>Liquid 2 Part Reagent</i>	V5.4VPA20	20 Test	Quantitative Turbidimetric	8,64-157 ug/mL
Carbamazepine <i>Liquid 2 Part Reagent</i>	V5.4CBZ20	20 Test	Quantitative Turbidimetric	3 -20 ug/mL
Digoxin <i>Liquid 2 Part Reagent</i>	V5.4DX20	20 Test	Quantitative Turbidimetric	0,25-5 ng/mL
PHENOBARBITAL <i>Liquid 2 Part Reagent</i>	V5.4PHB20	20 Test	Quantitative Turbidimetric	0,25-5 ng/mL
Lithium <i>Liquid 2 Part Reagent</i>	V5.1LI20	20 Test	Enzymatic	0,2-3 mmol/L

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Potassium <i>Liquid 2 Part Reagent</i>	V5.1K20	20 Test	Enzymatic	2-8 mmol/L
Copper <i>Liquid mono Reagent</i>	V5.1CU20	20 Test	Colorimetrico Dibrom -Paesa	0,00-500 ug/dL
Sodium <i>Liquid 2 Part Reagent</i>	V5.1NA20	20 Test	Enzymatic	80-180mmol/L
Zinc <i>Liquid mono Reagent</i>	V5.1ZN20	20 Test	Colorimetrico 5-brom -Paps	0-400 ug/dL

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Carbamazepine <i>Liquid 2 Part Reagent</i>	V5.4CBZ20	20 Test	Quantitative Turbidimetric	3 -20 ug/mL
Digoxin <i>Liquid 2 Part Reagent</i>	V5.4DX20	20 Test	Quantitative Turbidimetric	0,25-5 ng/mL
PHENOBARBITAL <i>Liquid 2 Part Reagent</i>	V5.4PHB20	20 Test	Quantitative Turbidimetric	0,25-5 ng/mL
Lithium <i>Liquid 2 Part Reagent</i>	V5.1LI20	20 Test	Enzymatic	0,2-3 mmol/L

SUBSTRATES

<i>Products</i>	<i>Ref</i>	<i>Kit size</i>	<i>Method</i>	<i>Linearity Range</i>
Albumin <i>Liquid mono Reagent</i>	V5.1ALB16	16 Test	Bromocresol green (BCG)	0.12-8 g/dL
Ammonia <i>Liquid mono Reagent</i>	V5.1AMN24	24 Test	Enzymatic UV GLDH	5-1700 ug /dL
Protein in urine <i>Liquid mono Reagent</i>	V5.1PUR20	20 Test	Pyrogallol	1-4000 mg /L

ENZYMES

<i>Products</i>	<i>Ref</i>	<i>Kit size</i>	<i>Method</i>	<i>Linearity Range</i>
PANCREATIC AMYLASE <i>Liquid 2 Part Reagent</i>	V5.1AMY-P20	20 Test	Cinetic Pnp-G7	1-2000 U/L
CK-MB <i>Liquid 2 Part Reagent</i>	V5.1MB20	20 Test	Immunologic	1-1000 U/L
Lipase color <i>Liquid 2 Part Reagent</i>	V5.1LIP24	24 Test	Cinetic-color	5-300 U/L

IMMUNOTURBIDIMETRY

<i>Products</i>	<i>Ref</i>	<i>Kit size</i>	<i>Method</i>	<i>Linearity Range</i>
Hemoglobin A1c <i>Liquid 2 Part Reagent</i>	V5+.4A1C20	20 Test	Latex Turbidimetry	0-15 %
Total bile Acid <i>Liquid 2 Part Reagent</i>	V5.4TBA20	20 Test	Quantitative Enzymatic	1-180 umol/L
Ethanol <i>Liquid 2 Part Reagent</i>	V5.4EAL20	20 Test	Enzymatic	0-400 mg/dL
Antithrombin III <i>Liquid 2 Part Reagent</i>	V5.4AIII20	20 Test	Antibody Turbidimetry	0-65 mg/dL
Anti-Streptolysin <i>Liquid 2 Part Reagent</i>	V5.4ASO24	24 Test	Latex Turbidimetry	20-800 IU/mL
b2-Microglobulin <i>Liquid 2 Part Reagent</i>	V5.4BM14	14 Test	Latex Turbidimetry Serum Urine	0,22-18 ug/L 0,04-3 ug/L
Cystatin C <i>Liquid 2 Part Reagent</i>	V5.4CC-14	14 Test	Antibody Turbidimetry	0.1-10 mg/L
Complement C 3 <i>Liquid 2 Part Reagent</i>	V5.4C3-20	20 Test	Antibody Turbidimetry	0-400 mg/dL
Complement C 4 <i>Liquid 2 Part Reagent</i>	V5.4C4.20	20 Test	Antibody Turbidimetry	0-80 mg/dL
D-Dimer <i>Liquid 2 Part Reagent</i>	V5.4DD20	20 Test	Turbidimetric	0,15-8 ug/mL
Fibrinogen <i>Liquid 2 Part Reagent</i>	V5.4FIB20	20 Test	Antibody Turbidimetry	0-523 mg/dL

IMMUNOTURBIDIMETRY

<i>Products</i>	<i>Ref</i>	<i>Kit size</i>	<i>Method</i>	<i>Linearity Range</i>
G6-PDH <i>Liquid 2 Part Reagent</i>	V5.4G6-20	20 Test	Quantitative Enzymatic	0,1-30 U/g Hb
I.G.E <i>Liquid 2 Part Reagent</i>	V5.4IGE14	14 Test	Latex Turbidimetry	25-1000 IU/mL
IGA <i>Liquid 2 Part Reagent</i>	V5.4IGA20	20 Test	Antibody Turbidimetry	0-600 mg/dL
IGG <i>Liquid 2 Part Reagent</i>	V5.4IGG20	20 Test	Antibody Turbidimetry	0-2700 mg/dL
IGM <i>Liquid 2 Part Reagent</i>	V5.4IGM20	20 Test	Antibody Turbidimetry	0-500 mg/dL
Kappa serum/urine <i>Liquid 2 Part Reagent</i>	V5.4KAP20S	20 Test	Antibody Turbidimetry Serum	0-800 mg/dL
	V5.4KAP20U	20 Test	Urine	0-340 mg/dL
Lambda serum/urine <i>Liquid 2 Part Reagent</i>	V5.4LAM20S	20 Test	Antibody Turbidimetry Serum	0-450 mg/dL
	V5.4LAM20U	20 Test	Urine	0-200 mg/dL
Microalbumin <i>Liquid 2 Part Reagent</i> <i>Included control</i>	V5.4MIA20	20 Test	Antibody Turbidimetry	0,7-400 mg/L
Myoglobin <i>Liquid 2 Part Reagent</i>	V5.4MGS-14	14 Test	Latex Turbidimetry	13-616 ng/mL
a1-Acid Glycoprotein <i>Liquid 2 Part Reagent</i>	V5.4AIG20	20 Test	Antibody Turbidimetry	0-300 mg/dL
Homocystein <i>Liquid 2 Part Reagent</i>	V5.4HCY20	20 Test	Enzymatic	3-50 mmol/L

IMMUNOTURBIDIMETRY

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C. R. P U.S <i>Liquid 2 Part Reagent</i>	V5.4PCR24US	24 Test	Latex Turbidimetry	2-140 mg/L
Rheumatoid Factor <i>Liquid 2 Part Reagent</i>	V5.4TR24	14 Test	Antibody Turbidimetry	0,01-500IU/mL
Transferrin <i>Liquid 2 Part Reagent</i>	V5.4TRF20	20 Test	Antibody Turbidimetry	0-500 mg/dL
Troponin I <i>Liquid 2 Part Reagent</i>	V5.4CTI-14	14 Test	Immunoturbidimetric	0,4-10 ng/mL