

## LIGHT SOURCE

- Quartz-halogen lamp 12V-20W.

## WAVELENGTH RANGE

- Automatic by 12 positions filterwheel;
- 6 standard interference filters: 340, 405, 505, 546, 578 and 620 nm;
- 6 positions for optional filters.

## PHOTOMETRIC RANGE

- 0.1 to 2.3 Absorbance.

## DETECTOR

- Photo diode (320-1000 nm).

## BLANKING

- Automatic zero setting.

## OPERATOR INTERFACE

- Membrane keyboard, for direct function and alpha-numeric entry;
- Optional external keyboard;
- High contrast graphical LCD display;
- Real time clock, 24 hours system.

## LANGUAGES

- English;
- Spanish;
- French;
- German;
- Portuguese;
- Other languages on request.

## MEASUREMENT PROCEDURES

- Kinetic, with linearity check;
- Kinetic, with linearity check and sample slope blank;
- Two point kinetic, with or without reagent blank;
- End point, with or without reagent blank;
- Bichromatic end point, with or without reagent blank;
- End point, with sample blank and with or without reagent blank.

## MULTIPLE TESTING

- Up to nine replicates;
- Means, SD and CV.

## MEASURING TIME

- Programmable, 2 to 998 seconds for kinetic and two point type of tests;
- For end point fixed at 2 seconds.

## DELAY TIME

- Programmable, 0 to 999 seconds.

## METHOD PARAMETER SETTINGS

a.o.

- Method name;
- Measurement mode;
- Wavelength 1 and 2;
- Aspiration volume;
- Measurement delay;
- Measurement time;
- Factor;
- Concentration standards;
- Reagent blank y/n;
- Sample blank y/n;
- Units for results;
- Levels for flagging;
- Curve fit y/n;
- Linearity check.

## CALIBRATION

- Factor, one-point, two-point and multi-point;
- Automatic on 1 standard (linear mode);
- Automatic on up to 10 standards (non linear mode).

## QUALITY CONTROL

- Two controls per test;
- QC survey of last 30 control measurements;
- Levey Jenning plot;
- High/low flags.

## FLOWCELL

- Metal, with quartz windows, measuring volume 30 µl.

## TEMPERATURE CONTROL

- By means of Peltier elements;
- Fixed temperature at 37°C.

## ASPIRATOR SYSTEM

- Internal pump of bellows type, driven by stepper motor;
- Back panel connection for waste;
- Aspiration volume programmable.

## PRINTER

- Internal matrix printer;
- Normal paper;
- External printer port available.

## SIGNAL INTERFACE

- Centronics type parallel port;
- RS 232 type serial port;
- PS 2 type port for external keyboard.

## QUALITY

- UL;
- CE;
- CB certificate.

## POWER REQUIREMENTS

- 100-240 VAC nominal, 50/60 Hz;
- Battery back-up to retain data.

## DIMENSIONS

- 40 x 17 x 36,5 cm (W x H x D).

## WEIGHT

- 8,5 kg.

## About ELITech Clinical Systems...

ELITech Clinical Systems is a global leader in BenchTop Chemistry Systems, with over 15,000 Chemistry Systems delivered.

Our mission is to enable better medical decisions by bringing high-value diagnostics solutions and services to laboratories that are closer to the patient (proximity laboratories). ELITech Clinical Systems leadership originates from our ability to continuously provide differentiated products and services focused to proximity laboratories. ELITech Clinical Systems markets the Microlab 300, designed to deliver trouble-free results laboratories can trust.

### Delivering Trouble Free Results Laboratories can Trust

#### Robust, Always gets the job done

- ✓ True workhorse with proven system reliability
- ✓ Support you can count on
- ✓ Best in class operator interface, easy to train, operate & maintain

#### Trouble Free Operations

- ✓ Simplifies lab operations & reduces error
- ✓ Best vendor services, application & lab operations support
- ✓ Cost effective, minimizes labor, maintenance & waste

#### Right Results, On Time

- ✓ Designed with mistake proofing and error reducing capabilities
- ✓ Management of difficult samples
- ✓ Proven methodologies, referenced and traceable to industry standards

With over 50 years of proven experience in the design and manufacture of award winning BenchTop laboratory products, the Microlab 300 is recognized worldwide for robustness and reliability.

Over the past decades, the ELITech Group Companies have established a solid distribution network that operates world-wide. More than twenty thousands of customers have experienced the quality, convenience and reliability of ELITech products. Local support is provided by dedicated and well trained sales and services organization.

In medium sized and small laboratories, the simplicity and the versatility of the Microlab 300 will handle all your test requirements while increasing productivity.

Also, the Microlab 300 will provide fast, flexible back-up for your main analyser by being on-call 24 hours a day or will operate as an independent facility for closer to patient testing in specialised clinics.

Part nr: ECS 6002310490-2010/04EN

Distributor contact information:

Content of this document is subject to change without prior notification

#### WORLDWIDE OFFICES:

Belgium T: +32 9 2820 531  
Brazil T: +55 27 3025 1415  
France T: +33 4 90 17 54 50  
Italy T: +39 02 48 40 35 42

Middle East & Africa T: +971 4 375 2744  
Serbia T: +381 11 2467119  
Switzerland T: +41 26 663 86 60  
The Netherlands T: +31 485 511 675

UK T: +44 1442 869320  
United States T: +1 855 354 8324  
+1 855 - ELITECH

Headquarters T: +33 1 41 45 07 13  
www.elitechgroup.com  
info@elitechgroup.com

DELIVERING TROUBLE FREE RESULTS

LABORATORIES CAN TRUST



# Microlab 300

SEMI AUTOMATED CLINICAL CHEMISTRY ANALYSER

# Introduction

The new Microlab 300. A true semi-automated clinical chemistry analyser in all its glory. A system that is designed as a clinical chemistry analyser and not as a standard photometer. That's what makes

the difference! The new Microlab 300 extends the excellent reputation of the Microlab family which tens of thousands of users all over the world can confirm to you.



## Small in size, a giant in performance

- True user orientated software: convenience;
- Full size qwerty keyboard and full size display: ease of operation;
- Reagent volume 30% less than most competing systems: substantial savings on reagent;
- In-built printer: no add-on parts and saves lab space;

- High reliability and almost no need for maintenance parts: low maintenance cost;
- No warm-up time: always ready to measure.

Whether you call it Low Cost per Test or Low Cost of Ownership, the unique features of the Microlab 300 save you money.

# System overview

## You name it, the Microlab 300 does it

- Clinical Chemistry
- Special Proteins
- Drugs of Abuse
- Therapeutic Drugs
- Electrolytes

The new Microlab 300 shows excellent performance for almost every application. Low volumes, low concentrations, turbidimetrics, the superior optical design of the Microlab 300 offers you the accuracy you need. And under every lab condition.

## A clinical chemistry analyser without compromises

The full size screen and qwerty keyboard allows interactive and intuitive operation of the Microlab 300. No strange keystrokes or hardly readable displays. The Microlab 300 offers trueconvenience and minimizes the risk of false data input.

## Maintenance

The Microlab 300 has a special cover for maintenance purposes. Replacing the paperroll or changing user-servicable parts is just a matter of minutes. The software displays the corresponding instructions in detail.



Sipper System



Full size screen and qwerty keyboard



Microlab 300 with open service cover

## Sipper System

The unique sipper and pump system provides the measuring unit with the reaction mixture. Measurement takes place in a specially designed micro flowcell, which is thermostatted by Peltier elements. The measuring volume of only 30 µl contributes to savings in reagent use.

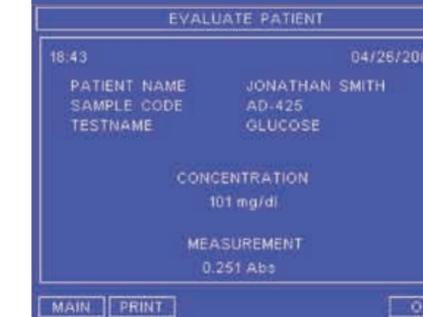
# Software

## Simplicity

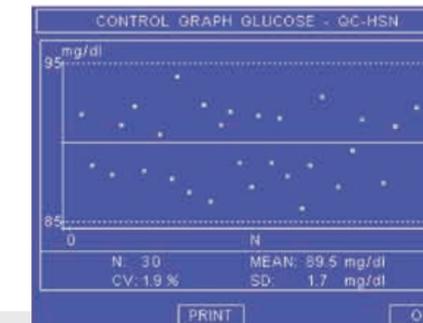
Discover the simplicity of operating with the new software. A skilled lab technician will be able to run the Microlab 300 within 15 minutes. The software guides you through the menus in a logical and intuitive way.

## On-Board Quality Control

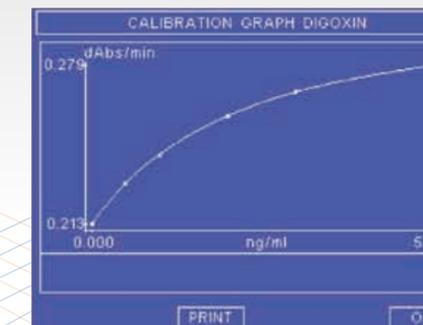
QC results are stored in memory and are clearly displayed on the screen. The software calculates the mean, standard deviation and coefficient of variation. Validation and a display of the Levey Jenning plot are also included.



Sample evaluation



Quality Control



Calibration Curve

## Patient Results

Retrieval of results becomes even simpler with the Microlab 300. A special evaluate patient menu gives the possibility to retrieve measured data very easily. Up to hundred patient result reports are automatically stored.

## Host Connection

Bi-directional Host Connection allows the analyser to download parameter settings, system parameters and software upgrades from the host computer and to transmit patient data to the data management system.