Introducing the new

# ChloroChek®

C H L O R I D O M E T E R®

NEW






*The perfect*
*CF diagnostic companion to the*
*Macroduct® Sweat Collection System*

ELITechGroup
BIOMEDICAL SYSTEMS

# CHLOROCHEK® CHLORIDOMETER®

## Simple to Operate and Maintain

*The ChloroChek is easy to operate with results in less than 20 seconds. Electrode maintenance is simply a daily rinse with deionized water.*

## Touch Screen Display

*ChloroChek's intuitive touch-screen interface, with simple prompts, leads the operator through the entire process of measuring chloride levels of sweat samples.*




## Easy to use Electrodes

*Electrodes are simply pushed into place for easy installation and removal for cleaning.*





## Sweat Controls

*Sweat controls are available with three levels to insure the highest quality control procedures for regulatory requirements.*



*The perfect CF diagnostic companion to the Macroduct® Sweat Collection System*

## Laboratory Diagnosis

Early diagnosis and treatment can significantly improve both the quality of life and the lifespan of children born with cystic fibrosis. The proven diagnostic effectiveness of analyzing chloride ions in sweat makes it vital to perform this test soon after birth.

Wescor, an ELITech Group company, has long been an innovator in the laboratory diagnosis of cystic fibrosis with the Macroduct Sweat Collection System. The Macroduct System has been approved by the U.S. Cystic Fibrosis Foundation for the stimulation and collection of sweat.

The ChloroChek Chloridometer is a perfect diagnostic companion to the Macroduct Sweat Collection System. ChloroChek is intended for the quantitative in vitro diagnostic determination of chloride in human sweat using the principle of coulometric titration. Sweat chloride measurements are used in the laboratory diagnosis of cystic fibrosis.

## Chloride Titration

The ChloroChek Chloridometer is a coulometric titrator designed to determine chloride ion concentrations in sweat samples with just 10 microliters of sweat. It displays the concentration directly in mmol/L $Cl^-$. The sweat sample is added to an acid buffer/stabilizer working solution. Silver ions are generated by electrolysis from silver electrodes also immersed in the working solution.

The combination of silver ions and chloride ions (from the sweat sample) is a quantitative reaction that is recorded in real time, and is proportional to the chloride ion concentration in the sweat sample.

The ChloroChek is truly simple to use and provides consistent results. It performs accurate coulmetric chloride titration of small sweat samples–a huge step forward in the laboratory diagnosis of cystic fibrosis in clinical laboratories that demand fast-paced accuracy at an economical cost.

# CHLOROCHEK® CHLORIDOMETER®*

# Specifications

## ChloroChek® Chloridometer

| | |
|---|---|
| Sample Volume | 10 $\mu$L |
| Duration of Measurement | Approximately 20 Seconds |
| Reproducibility** | CV of 1.02% at 100 mmol/L |
| Measurement Display | 0 - 999 mmol/L |
| Clinical Measuring Range | 10 - 160 mmol/L |
| Resolution | 1 mmol/L over the entire measurement range |
| Integrated Stir Bar | PTFE coated magnetic cylindrical stir bar |
| Environmental Operating Conditions | Indoor use; no direct sunlight |
| Operating Temperature (ambient) | 10 ˚C to 35 ˚C / 50 ˚F to 95 ˚F |
| Storage Temperature | -40 ˚C to 70 ˚C / -40 ˚F to 158 ˚F |
| Room Humidity | 5-80% (non-condensing) |
| Altitude | Up to 2000 m |
| Electrical Voltage | 100-120 VAC / 200-240 VAC |
| Frequency | 50-60 Hz |
| Power | 20 VA |
| Electrical Connection | Detachable power supply cord |
| Fuses (2): HBC breaking capacity 1500 A | 1.0 A for 100-120 VAC<br>0.5 A for 200-240 VAC |
| Memory Backup | Integral lithium cell: 10 years typical |
| Dimensions: (W x D x H) | 20.5 x 22.0 x 36.0 cm (8.0 x 8.1 x 14.2 inches) |
| Weight | Approximately 5.7 kg (12.54 lbs.) |

**Generally limited by the sample dispensing system (pipette accuracy)

*Pending FDA clearance

Chloridometer® is a registered trademark of Labconco Corporation, exclusively licensed to Wescor, Inc

*Please contact us to check the availability of Chlorochek in your country*

**ALSO AVAILABLE:**

Macroduct® Sweat Collection System
Sweat-Chek™ Sweat Conductivity Analyzer
Nanoduct® Neonatal Sweat Analysis System

60-0032-01B
CHLORO.FEB13-14
© ElitechGroup 2013

CE

Please contact your sales representative for product availability in your country.

WORLDWIDE OFFICES

| | | | |
|---|---|---|---|
| **Headquarters** | **T: +33 1 41 45 07 13** | | |
| Australia | T: +44 1442 869320 | New Zealand | T: +1 609 216 736 |
| Benelux | T: +31 313 430 574 | Serbia | T: +381 11 2467119 |
| Brazil | T: +55 27 3025 1415 | Switzerland | T: +41 26 663 86 60 |
| France | T: +33 4 83 36 10 82 | The Netherlands | T: +31 313 430574 |
| Italy | T: +39 02 48 40 35 42 | UK | T: +44 1442 869320 |
| Middle East & Africa | T: +971 4 375 2744 | United States | T: +1 435 752 6011 |

ELITechGroup
SOLUTIONS
*tailored to your needs*
www.elitechgroup.com
info@elitechgroup.com