

Introducing the new  
**ChloroChek<sup>®</sup>**

C H L O R I D O M E T E R<sup>®</sup>



The perfect CF diagnostic companion  
to the Macroduct<sup>®</sup>  
Sweat Collecton System

## 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 coulometric 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.

# Specifications

## ChloroChek® Chloridometer\*

Sample Volume	10 µL
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 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)

\*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



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

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