



SWEAT TESTING

MACRODUCT[®] ADVANCED

Sweat Induction and Collection

**GOLD
STANDARD**



WORLD LEADER IN LABORATORY CF DIAGNOSIS

For clinical laboratory use by qualified medical personnel for stimulation and collection of sweat from humans for analysis for the diagnosis of cystic fibrosis.

MACRODUCT® ADVANCED IS SWEAT TESTING AT ITS BEST

More than 5 million sweat tests have been performed with the existing Macroduct® Sweat Collection System. The Macroduct® Advanced is a result of 40+ years of ongoing innovation to further standardize pilocarpine iontophoresis and sweat collection.

Device

- Easy to use touch screen interface with built in step-by-step graphical instructions
- Flexible data management options
- Meets protocols and traceability requirements



REVISED ELECTRODES, COLLECTOR, AND STRAPS FOR GREATER CONVENIENCE WHEN WORKING WITH SMALL LIMBS



Electrodes

- Electrodes detect the absence of Pilogel discs and will not start iontophoresis without the discs



Sweat Collector

- Elliptical shaped collector is a better fit for small arms
- Minimum amount of sweat needed is 15 microliters in a 30-minute collection period
- Two marks on each collector for checking the minimum volume of sweat required and determining the sweat rate



Sweat Transfer

- Easyduct® Needle has a tapered blunt end for easy insertion into the tubing and transferring sweat

Adjustable and Disposable Straps

- Easy to fit and disinfect for reuse



THE CHLOROCHK® CHLORIDOMETER®

THE PERFECT CF DIAGNOSTIC COMPANION

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 a buffer/stabilizer working solution.



Key Advantages

- Easy to operate with consistent results in less than 20 seconds
- Intuitive touchscreen interface with simple prompts
- Maintenance for electrodes is simple – a daily rinse with deionized water
- Electrodes are simply pushed into place
- Results can be exported for complete traceability



SWEAT CONTROLS ARE AVAILABLE, WITH THREE LEVELS, TO INSURE THE HIGHEST QUALITY CONTROL PROCEDURES TO MEET REGULATORY REQUIREMENTS



Macroduct Advanced® Sweat Collection System Model 3710

*Includes all needed accessories and one supply kit. Each kit contains 12 Macroduct Advanced Pilogel discs, 6 Macroduct Advanced collectors, and 6 small sealable containers.

Iontophoresis Current (nominal control)	(a) Current profile-controlled ramp-up and ramp-down (b) 1.5 mA (c) Fail-safe current limited by circuit design
Electrode Cable Assembly	Color-coded elliptically shaped electrodes to fit elliptical Pilogel discs
USB Connection	Micro USB connector for exporting test data
Power	Rechargeable lithium ion battery
Device & Carrying Case Weight	5 lbs (2.3 kg)

ChloroChek® Chloridometer® Model 3400

Sample Volume	10 µL
Duration of Measurement	Approximately 20 Seconds
Reproducibility (*Generally limited by the sample dispensing system/ pipette accuracy)	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.)
Data Output	Serial RS-232 / USB

SPECIFICATIONS

ORDER INFORMATION

	Catalog Number	Description		Catalog Number	Description
Macroduct Advanced	MODEL 3710-SYS	Macroduct® Advanced 3710 Sweat Collection System	ChloroChek	MODEL 3400	ChloroChek® Chloridometer® Sweat Chloride Analyzer
	AC-193	EasyDuct Needle/1cc Syringe, Pack of 3		AC-071	Ampule Organizer for Sweat Controls
	RP-537	Electrode Cable Assembly Macroduct® Advanced		SS-150	Sweat Controls, L1, L2, L3 12 ea., 36x0.75mL
	SS-107	Small Sealable Containers, Pack of 6		SS-248	ChloroChek® Reagent Set, 37x10mL BS + 1x30mL GS
	SS-268	Macroduct® Advanced Supply Kit		SS-251	ChloroChek® Standard Solution, 100 mmol/L, 10x1mL
	SS-268-ND	Macroduct® Advanced Supply Kit, No Dye Collectors			
	SS-269	Strap Set, 18 ea, Macroduct® Advanced			
	SS-270	Strap Set, 180 ea, Macroduct® Advanced			
	SS-271	Electrode Cleaning Pads, Pack of 10			



WORLDWIDE OFFICES

Please contact your sales representative for terms, conditions and product availability in your country.



ELITechGroup has been certified by BSI to ISO 13485:2016 under certificate numbers MDSAP 689350 and FM 703046

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