

# Diffusion Tester

## DermaX Basic

DermaX Basic is a manual division testing instrument that can be used for IVRT and IVPT studies. It meets or exceeds specifications given in USP<1724> with respect to mixing speeds and testing temperature. It is based on dry block heating technology. Contactless temperature monitoring using TemSen™ technology. The robust cell design eases cell preparation and handling. The user is given sampling alerts for timely sample collection. It is a 21 CFR Part 11 compliant system. It comes with a standalone interactive user-friendly interface.



## Dry Block Heating

Same heating block or all cell sizes. Heat transfer sleeves to be used for small and medium cells



Small cell  
(with sleeve)



Medium cell  
(with sleeve)



Large cell  
(no sleeve)

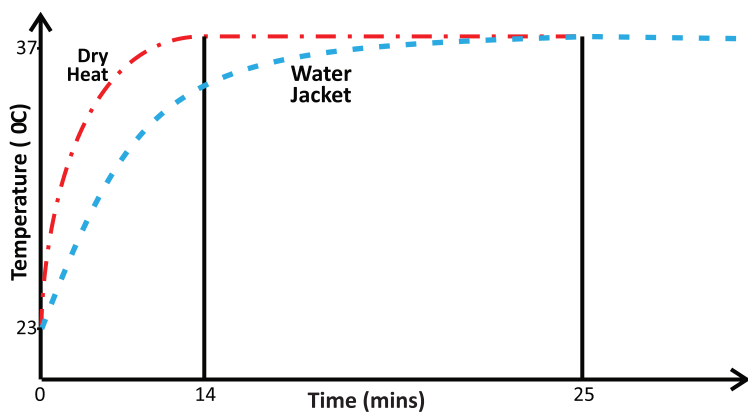
60% contact between each cell and the heating block sleeve

Saves water, electricity and time

Ease in cell handling

Replenishment unit also has a heating block to maintain replenishment medium at testing temperature

Quicker to achieve testing temperature with dry heat mechanism.



## TemSen™ Temperature

Contactless real-time temperature monitoring.

Helps validate temperature throughout the test



### User-Friendly Interface

7" color capacitive touch screen makes method creation and quick Biometric login, D'Light technology, LIMS, connectivity, and embedded printer eases functionality



### Security and Compliance

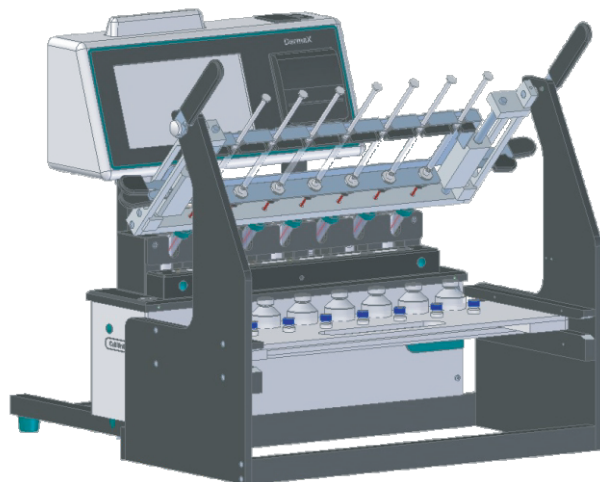
21 CFR Part 11 Compliant  
Multi-level security with user-programmable roles  
Large storage space for methods and reports



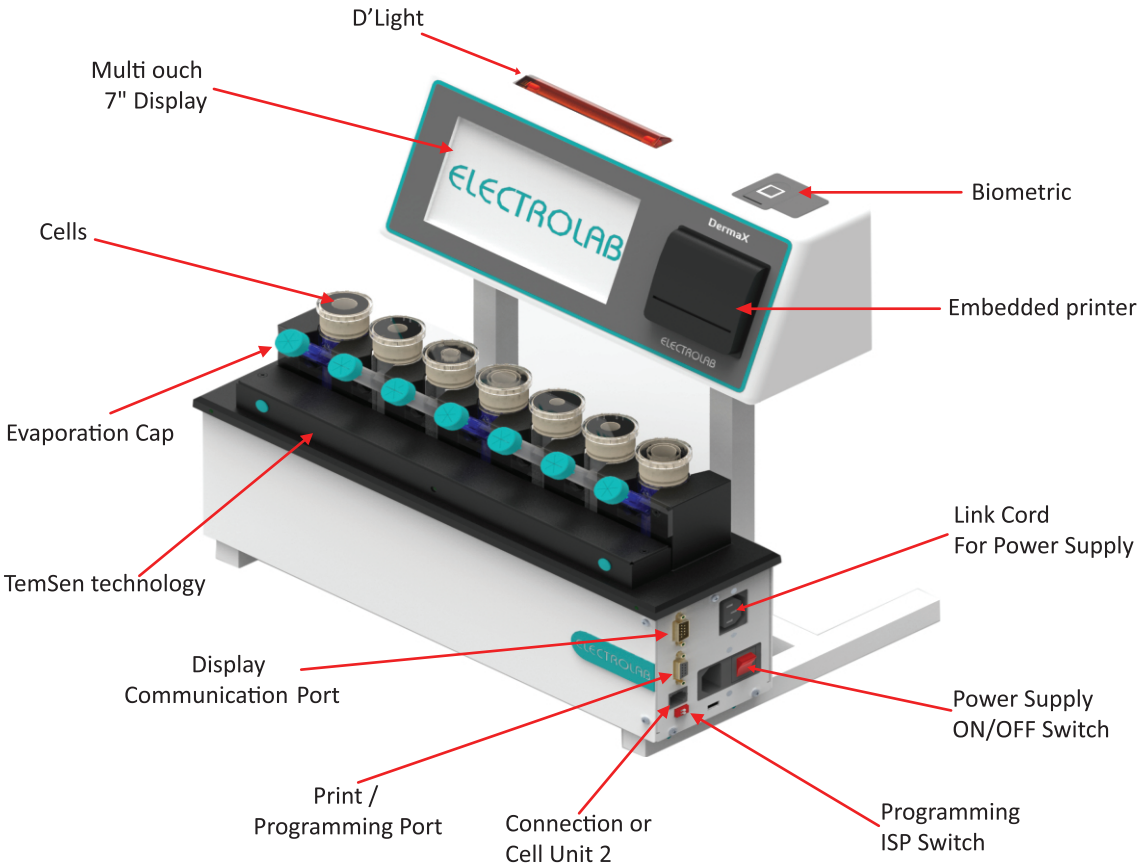
### Greater Application Flexibility

Variable volumes possible by addition of different swappable stirrer  
Range of dosage form application Volumes (with different orifice diameter cell caps)  
Use in both IVRT and IVPT studies

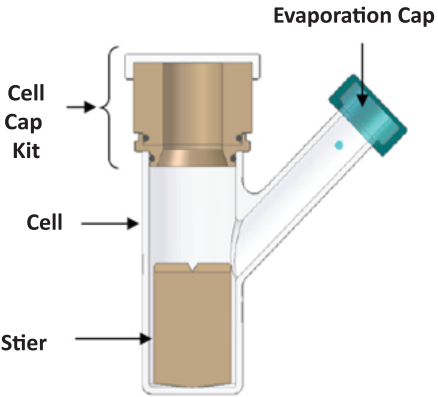
IVRT (Release)	IVPT (Permeation)
Synthetic Membrane	Human Skin
Occluded Dose	Unoccluded Dose
Infinite Dose	Finite Dose
Release Rate (slope)	Flux Profile, Jmax etc.,
Alcoholic Media	Physiological Media
$\mu\text{g}$ to mg Range	$\text{pg}$ to ng Range
Specific to the Formulation	IVIV correlation
Relative Consistency	Donor variability



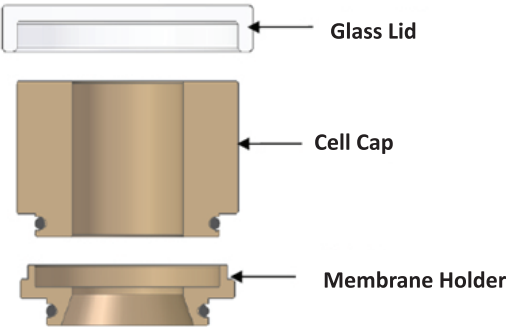
# DermaX Basic: Components and Parts

































## Cell Assembly

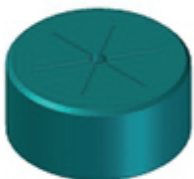


## Cell Cap Kit Components



## Accessories

	Small				Medium				Large			
Cell type	<div></div> <div>Part No: 1001A00083      Small Cell Sleeve 1001A00105</div>				<div></div> <div>Part No: 1001A00084      Medium Cell Sleeve 1001A00104</div>				<div></div> <div>Part No: 1001A00085</div>			
Donor kit	Part No: 1001A00092	Part No: 1001A00093	Part No: 1001A00106	Part No: 1001A00107	Part no: 1001A00153	Part no: 1001A00154	Part no: 1001A00152	Part no: 1001A00155	Part No: 1001A00096	Part No: 1001A00097	Part No: 1001A000102	Part No: 1001A000103
Cell cap	 4 mm	 20 mm	 4 mm	 20 mm	 4 mm	 20 mm	 4 mm	 20 mm	 4 mm	 20 mm	 4 mm	 20 mm
Membrane holder	 9 mm		 11.3 mm		 11.3 mm		 15 mm		 15 mm		 20 mm	
Dosage cover	<div> Part no: 1001A00120</div>											
Stirrer type	 Part No: 1001A00087		 Part No: 1001A00086		 Part No: 1001A00089		 Part No: 1001A00088		 Part No: 1001A00090		 Part No: 1001A00091	
Cell volume	10 mL		8 mL		20 mL		15 mL		31 mL		21 mL	



Dermax Cell evaporation (Set of 15) 1001A00100



Dermax Replenishment bottle (Set of 7) 1001A00102



Test Report Printout

integrOS™			
	Lite	Standard	Pro
Security	✓	✓	✓
Electronic Instrument Log Book		✓	✓
Data Transfer	Print	Print + Electronic (XML)	Print + Electronic (XML)
Instrument ↔ kloudbase/ LIMS • User Details • Method Information		✓	✓
Instrument ↔ kloudbase/ LIMS • Reports • Audit Trail		✓	✓



## Specifications

Model	DermaX Basic
No. of stations	7
Temperature	20 - 45°C
Heater	200W
Control accuracy	± 1.0°C
RPM	200 - 1000
RPM accuracy	± 2 RPM
Cell type	Small, Medium and Large (Clear and amber)
Cell volume (Depending on cell and stirrer type)	8 - 30 mL
Dosage volume	0.25 - 6.2 mL
Infinity run	Yes
Media changeover	Yes
Sampling intervals	18
Display	Multi touch capacitive 7" screen
Protocol Storage	1000
Test Report Storage	10000
Security	Multiple level with password for 250 users with 10 user programmable role
Report Printout	Ethernet
Illumination	D'Light
Biometric finger print	Optional
Thermal printer	Optional
Dimensions (L X W X H)	385 X 260 X 402 (mm)
Weight	12 kg

ELECTROLAB

## Our Products

- Complete range of Dissolution eerrrrs • Dissolution Media eparator • Friability Testers • Tablet Hardness Testers
- Electromagnetic Sie e Shakers • Tap Density Tester • Bulk Density Tester • Powder Flow T ester • Leak Testers • Peristaltic Pumps

The information obtained in this document is believed to be correct but **ELECTROLAB** accepts no liability for any errors and reserves the right to alert specifications without notice.

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