

Diffusion Cell Apparatus (EMFDC06-O30)

IN-VITRO SKIN PERMEATION STUDIES OF TOPICAL FORMULATIONS

The Vertical Franz Diffusion Cell is a simple, reproducible test for measuring the in vitro drug release from creams, ointments and gels. The Franz Cell consists of two primary chambers separated by a membrane. The test product is applied to the membrane via the top chamber- donor compartment. The bottom chamber- receptor compartment contains fluid from which samples are taken at regular intervals for analysis. This testing determines the amount of active drug that has permeated the membrane at each time point.



Designed To Study Reproducible Test For Measuring The In Vitro Drug Release From Creams, Ointments And Gels.



FEATURES:

- Highly accurate stirring speed and temperature controller
- Precise speed control over stirring range 200-800 rpm using digital speed indicator and controller.
- Digital Temperature controller for precise temperature control
- Water Circulation System with water level sensors to avoid damage to heating element.
- Magnetics Stirrer with stainless steel body to avoid corrosion.
- Sturdy, Heavy duty magnetic Stirrers - allowing continuous & Nonstop Operation

The Transdermal Diffusion cell apparatus is remarkably simple to operate; the system is supplied with:

- Six-stage magnetic stirrer with digital RPM indicator
- Water heater and water circulation system with digital temperature controller and water level indicator
- Cell holders
- Diffusion Cells
- Teflon-coated stirring bars

SYSTEM SPECIFICATION AND MODELS:

Specification	Model
	EMFDC06-O30
	Stirrer Drive
Stirrer drive	6 stage
Material of construction of enclosure	S.S. 304
RPM Indicator	Digital
Speed Range & Accuracy	200- 800 rpm ($\pm 1.0\%$)
Water circulation System	
Material of construction of enclosure	S.S. 304
Temperature range and accuracy	5°C Above ambient to 60°C ($\pm 0.2^\circ\text{C}$)
Certifications	CE Compliant
Power requirements	220/230V AC 50Hz, 110/120V AC 50-60Hz*

*Needs to be specified in order information

ORDERING INFORMATION:

Model	Stirring drive	Cells Supplied	Accessories supplied	Optional
EMFDC 06-O30	6 stage	6 Nos cell of 20ml volume	<ul style="list-style-type: none"> • Clamps-6 • Adequate Silicon Tubing • Stirring Bar-6 • Silicon rings - 6 • Lid for cell sampling arm - 6 • Luer Lock Connectors For Cell • Interconnections- 5pairs. • Dosage Compartment - 6 • Support Disk - 6 • Alignment Ring - 6 	<ul style="list-style-type: none"> • Diffusion cell of 5ml, 7ml, 12ml • Precise Sample Withdrawal Syringe 1ml • Inlab Calibration Report For Diffusion Cells.

Note: Orchid's continuing product development makes specifications subject to change without prior notification.



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