

Unilect™ 4500M



Key Benefits

- Latex free
- PVC free (in contact with skin)
- Radio translucent and MRI compliant

Unilect™ 4500M

Adult size wet gel monitoring electrode made from polyethylene (PE) foam. The electrode offers an integrated skin prepping system conveniently placed on the transparent polyester (PET) liner. The electrode has a

high-tack, acrylic adhesive and is radio-translucent[†], making it an excellent choice for short term monitoring. Furthermore, the electrodes are conveniently packed with 30 pieces to a pouch.

Specifications

Dimensions	
Electrode size (diameter in mm)	50
Skin contact size (diameter in mm ²)	1980
Adhesive area (in mm ²)	1611
Height excluding connector (in mm)	1.6
Sensor	
Sensor material	Silver, silver chloride (Ag/AgCl)
Gel system	Chloride based, wet gel
Gel area (in mm ²)	254
Sensor area (in mm ²)	77
Electrical data (ANSI/AAMI)	
AC impedance - typical	129 Ω
DC offset potential - typical	0.2 mV
Defibrillation overload recovery - typical	10.6 mV
Rate of change for polarisation potential - typical	0.3 mV/s
Combined offset instability and internal noise	2 μV
Bias current tolerance	7.3 mV

Environment	
PVC-free electrode (in contact with skin)	Yes
Latex-free electrode	Yes
PVC-free packaging	Yes
X-Ray & MRI	
X-ray	Yes ¹
MRI	Yes ¹¹
Lifetime	
Opened pouch	Information available upon request
Sealed pouch*	24 months

*from date of production

Accessories	
Skin Preps	Ref: 2121M
Related Products	
Please see data sheet no.	4500M-H

Materials

Electrode	
Bio-compatible	Yes ²⁻⁹
Sponge	Polyurethane foam (PU)
Backing material	Polyethylene foam (PE)
Backing material adhesive	Acrylic
Supporting label	Printed PVC with Acrylic Adhesive
Connector	Graphite, snap type
Upper substrate	-
Release liner	Siliconised polyester (PET)

Packaging	
Pouch (outer/middle/inner layers)	Polyester (PET)/aluminium/polyethylene (PE)
Pouch dimensions	160 x 215 mm
Inner carton	Printed corrugated board
Inner carton dimensions (Ext)	191 x 226 x 156 mm
Shipping carton	Printed corrugated board
Shipping carton dimensions (Ext)	793 x 393 x 235 mm
Standard Packaging	
Quantity/liner	1
Quantity/pouch	30
Inner carton	300
Shipping carton	3000
Minimum sales	3000
Precaution	
Single patient use only	

Available configurations*

Quantity/pouch	30
	Quantity per inner/outer box
4500M	300/3000

- * Overlay material of the 4500M with graphite snap may cast shadows in radiographs with intensities greater than 50 kV
1. Verification of ECG Electrode Radio-translucency. July 16, 2007. Data on file, ConvaTec
 2. Conductive Gel: Tissue Culture Cytotoxicity Test using L929 Cells. SPL project number: 885/001. Test facility: Safepharm Laboratories Limited.
 3. Conductive Gel: British Standard 5736 - Part 6 (Method 1) Delayed Contact Dermatitis Study in the Guinea Pig. SPL project number: 885/00. Test facility: Safepharm Laboratories Limited
 4. Conductive Gel: British Standard 5736 - Part 7 Skin Irritation Test of Extracts from Medical Devices in the Rabbit. SPL project number: 885/003. Test facility: Safepharm Laboratories Limited
 5. Foam Coated with Pressure Sensitive Adhesive: BS EN ISO 10993-5/USP 24 Tissue Culture Cytotoxicity Test using L929 Cells - Indirect Contact (Agar Diffusion) method. SPL project number: 1209/004. Test facility: Safepharm Laboratories Limited.
 6. Foam Coated with Pressure Sensitive Adhesive: ISO 10993-5 Tissue Culture Cytotoxicity Test using L929 Cells - Indirect Contact (Agar Diffusion) method. SPL project number: 1209/003 Test facility: Safepharm Laboratories Limited
 7. Foam Coated with Pressure Sensitive Adhesive: International Standard ISO 10993-10: 1995 Acute (Single Exposure) Skin Irritation Test in the Rabbit. SPL project number: 1209/001. Test facility: Safepharm Laboratories Limited
 8. Foam Coated with Pressure Sensitive Adhesive: International Standard ISO 10993-10: 1995 Maximisation Sensitisation test in the Guinea Pig. SPL project number: 1209/002. Test facility: Safepharm Laboratories Limited
 9. Biocompatibility Safety Assessment of Paper and PU Foam. Version 5th February 2010. Data on File. ConvaTec
 10. Testing adhesion of 2 groups of ECG electrodes. A prospective time study. March 23, 2006. Data on file, ConvaTec
 11. TOCM_MRI Test Report for Various ECG Electrodes. Version 10th August 2009
 12. American National Standard Institute /Association for the Advancement of Medical Instrumentation (ANSI/AAMI). EC12:2000 Section 4.2.2.1 to 4.2.2.5.

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