

Theralite

DESIGNED FOR:

HCO-HD [High Cut Off]

MEMBRANE:

HCO [PAES/PVP, BPA-free]

The **Theralite** dialyzer is only intended to be used for blood purification in hemodialysis mode in diseases where removal of plasma components with molecular weights up to 45 kDa is indicated.

SPECIALIZED FOR MULTIPLE MYELOMA PATIENTS

The **Theralite*** dialyzer, featuring the proprietary High Cut-Off (HCO) membrane, targets the removal of free light chain (FLC) proteins. In patients with multiple myeloma, these light chains can be overproduced and lead to acute renal failure!^{1,2}

FOCUSED ON HIGHER PERMEABILITY

The **Theralite** dialyzer is able to effectively remove large toxins including FLCs, which can help provide positive treatment outcomes for patients with Multiple Myeloma disease.^{1,3-10}

- Features the unique HCO membrane, which is characterized by its large pore size^{1,11}
- Providing still an effective retention of large proteins⁷

WITH BIOCOMPATIBILITY IN MIND

- The 3-layer-membrane structure has been designed to optimize the removal of large proteins, while acting as a safety barrier to endotoxins¹²
- The **Theralite** dialyzers are steam sterilized inside-out to promote biocompatibility, avoiding exposure to chemicals such as ethylene oxide and manufacturing residues^{13,1}



The images are for illustration purposes only and may differ from the actual product.

* Do not use **Theralite** dialyzers in HDF or HF mode

* **Theralite** dialyzers must not be used for pediatric dialysis and for regular treatment of chronic renal failure

* **CAUTION!** **Theralite** dialyzers must only be used on the direction of a physician who has evaluated all the pertinent features of this device in relation to the individual patient

Theralite Specifications

MATERIALS	THERALITE
Membrane	High Cut Off Polyarylethersulfone and Polyvinylpyrrolidone blend BPA-free
Potting	Polyurethane (PUR)
Housing	Polycarbonate (PC)
Gaskets	Silicone rubber (SIR)
Protection caps	Polyethylene (PE)
Sterilization	Steam (Inside-out)
Sterile barrier	Medical Grade Paper

SPECIFICATIONS	
UF-Coefficient (mL/(h*mmHg))*	52
KoA urea*	1662
Blood Compartment volume (mL)	140
Minimum recommended priming volume (mL)	1000
Maximum TMP (mmHg)	300
Recommended Q _B (mL/min)	200-500
Storage conditions	<30°C (or <86°F)
Units per box	1
Gross/net weight (g)	630/270

MEMBRANE	
Effective Membrane Area (m ²)	2.1
Fiber inner diameter (µm)	215
Fiber wall thickness (µm)	50

SIEVING COEFFICIENTS*	
Vitamin B12 (1,4 kDa)	1.0
Inulin (5,2 kDa)	1.0
β ₂ -microglobulin (11,8 kDa)	1.0
Myoglobin (17 kDa)	0.95
Albumin (66,4 kDa)	0.2

* According to ISO 8637-1
 – UF-Coefficient: measured with bovine blood, Hct 32%, Pct 60g/L, at 37°C
 – KoA urea: calculated at Q_B=300 mL/min, Q_D=500mL/min, UF=0 mL/min
 – Sieving coefficients: measured with bovine plasma, Q_B=300 mL/min, UF=60 mL/min
 – Clearances In-Vitro: measured at UF=0 mL/min, ±10%
 – Albumin loss in-vitro (HD): measured with bovine plasma (Pct 60g/L, at 37°C – Albumin level 20–30 g/l.), Q_B=200ml/min, Q_D=500ml/min, UF=0ml/min

CLEARANCES IN VITRO (mL/min)*	THERALITE
Urea (60 Da) (Q _B -Q _D , mL/min)	
200/500	199
300/500	286
400/500	349
500/500	390
Creatinine (113 Da)	
200/500	196
300/500	273
400/500	326
500/500	361
Phosphate (142 Da)	
200/500	195
300/500	269
400/500	320
500/500	354
Vitamin B12 (1.4 kDa)	
200/500	175
300/500	221
400/500	252
500/500	274
Inulin (6.2 kDa)	
200/500	157
300/500	191
400/500	214
500/500	230
Myoglobin (17 kDa)	
200/500	126
300/500	146
400/500	160
500/500	170

ALBUMIN LOSS IN-VITRO*	
Average loss per hour of treatment (g/h)	≤7.0

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The products meet the applicable provisions of Annex I (Essential Requirements) and Annex II (Full quality assurance system of the Council Directive 93/42/EEC of 14 June 1993, amended by Directive 2007/47/EC).

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For safe and proper use of the device, please refer to the Instructions for Use

