

# NorrDia

## HOLLOW FIBER HEMODIALYZER (High-Flux)

DESIGNED FOR  
High-Flux Haemodialysis  
(HFHD)

OTHER APPLICABLE THERAPIES  
Haemofiltration (HF)  
Haemodiafiltration (HDF)

MEMBRANE  
POLYETHERSULFONE (PES)



### High Permeability for Effective Treatment

NorrDia H dialyser series is designed for high permeability, removing small and large uremic toxins to support effective haemodialysis. With high clearance rates they enable the prescribed removal targets to be met within standard treatment times – critical for delivering high-quality dialysis care.

### High Permeability with Minimal Albumin Loss

NorrDia H dialyser series is based on a membrane with well-defined and controlled pore size distribution, allowing removal of middle molecules while preserving essential proteins.

Maintaining blood albumin levels is important, as low albumin levels are associated with significantly higher mortality risks in dialysis patients<sup>1</sup>. There is a low risk of a significant albumin loss during treatment with NorrDia H dialyser series.

### Advanced Membrane Technology for Safe and Effective Treatment

NorrDia's membrane production allows controlled pore size distribution with a high overall porosity for optimal dialysis performance.

### BPA-Free for Enhanced Patient Safety

NorrDia H dialyser series prioritises patient safety with a BPA-free polypropylene housing, reducing exposure to bisphenol A (BPA) – a substance classified by the European Commission as toxic to reproduction (Category 1B) and an endocrine disruptor of very high concern (SVHC)<sup>2</sup>.

### Optimised Flow Design to Reduce Clotting and Blood Loss

Leveraging advanced hydrodynamic research, NorrDia H dialyser series features an optimised blood inlet design that facilitates a homogeneous blood distribution in the dialyser header.

### Efficient Priming for Time and Cost Savings

NorrDia H dialyser series features an optimised dialysate flow channel design, enabling top-down priming without the need for manual intervention. This allows staff to use automatic priming functions without having to turn the dialyser, improving workflow efficiency and freeing up time for other tasks.

# Product specifications

## MATERIALS

Membrane	Polyethersulfone (PES) hollow fibre membrane
Potting	Polyurethane
Housing	Polypropylene
Gaskets	Silicone
Protection caps	Polyethylene
Sterilisation	Radiation sterilisation
Sterile barrier	PE-PA synthetic film

## SPECIFICATIONS

	NORRDIA- 14H	NORRDIA- 18H	NORRDIA- 20H	NORRDIA- 22H	NORRDIA- 24H
UF-Coefficient (mL/(h*mmHg))	53	68	75	83	90
KoA urea* (mL/min)	1190	1614	1832	1900	2269
Blood Compartment volume (mL)	78	101	110	121	134
Minimum recommended priming volume (mL)	500				
Maximum TMP (mmHg)	500				
Storage conditions	0-40°C (32°F-104°F)				
Units per box	24				
Unit net weight (g)	155	166	188	192	200

## MEMBRANE

	NORRDIA- 14H	NORRDIA- 18H	NORRDIA- 20H	NORRDIA- 22H	NORRDIA- 24H
Effective Membrane Area (m <sup>2</sup> )	1,4	1,8	2,0	2,2	2,4
Fibre inner diameter (µm)	200±20				
Fibre wall thickness (µm)	40±10				

## SIEVING COEFFICIENTS\*

β2-microglobulin (11,8 kDa)	0.9±0.1
Myoglobin (17 kDa)	0.5±0.1
Albumin (66,4 kDa)	≤0.008

## References:

- 1- Kalantar-Zadeh K, Ficociello LH, Bazzanella J, Mullon C, Anger MS. Slipping Through the Pores: Hypoalbuminemia and Albumin Loss During Hemodialysis. Int J Nephrol Renovasc Dis. 2021 Jan 20; 14:11-21.
- 2- Commission Regulation (EU) 2024/3190 of 19 December 2024 on the use of bisphenol A (BPA) and other bisphenols and bisphenol derivatives with harmonised classification for specific hazardous properties in certain materials and articles intended to come into contact with food, amending Regulation (EU) No 10/2011 and repealing Regulation (EU) 2018/213

## CLEARANCES IN VITRO (mL/min)

### HAEMODIALYSIS MODE (HD)

#### Q<sub>B</sub>/Q<sub>D</sub> (mL/min)

Urea (60 Da)	NORRDIA- 14H	NORRDIA- 18H	NORRDIA- 20H	NORRDIA- 22H	NORRDIA- 24H
200/500	195	199	200	200	200
300/500	275	288	292	292	297
400/500	318	344	350	352	365

### Creatinine (113 Da)

200/500	193	196	198	199	200
300/500	258	270	274	278	283
400/500	290	310	320	330	338

### Phosphate (142 Da)

200/500	181	191	194	196	196
300/500	236	255	262	268	274
400/500	268	296	310	318	326

### Vitamin B12 (1.4 kDa)

200/500	138	159	165	169	175
300/500	168	195	203	211	223
400/500	186	218	225	233	245

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\*According to ISO 8637-1: 2017

- UF-Coefficient: measured with bovine blood, Hct 32%, Pct 60g/L, 37°C

- KoA urea: calculated at Q<sub>B</sub> = 300 mL/min, Q<sub>D</sub> = 500 mL/min, UF = 0 mL/min

- Clearances In Vitro: measured at UF = 10 mL/min



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