

# TORAY

Innovation by Chemistry

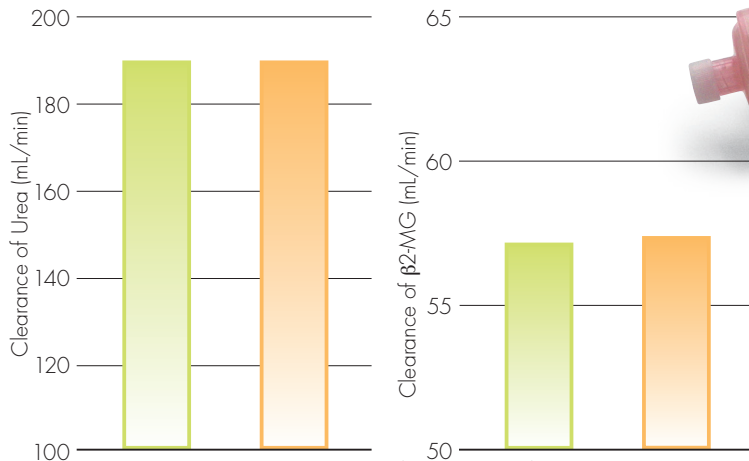
# TORAYLIGHT™ NS

High-flux dialyzer



# TORAYLIGHT™ NS series

- High-flux dialyzer
- Less eluted substances with advanced technique for cross-linked structure
- 60% lighter than our previous wet model
- High-efficiency of thermal recycle



■ TS-S\*: Corresponding value (1.5m<sup>2</sup>)  
■ NS-S: Corresponding value (1.5m<sup>2</sup>)  
 \*Previous wet model

Experimental condition  
 Bovine plasma (TP 6.5g ±0.5g/dl)  
 Temp 37 ±1°C  
 Q<sub>B</sub>=200 ±4mL/min  
 Q<sub>D</sub>=500 ±10mL/min  
 Q<sub>F</sub>=10 ±2mL/min

## Performance (in vitro)

Product name		TORAYLIGHT NS series			
Type		NS-13SL	NS-15S	NS-18S	NS-21S
Housing material		Polypropylene			
Potting material		Polyurethane			
Fibers	Membrane	Polysulfone			
	Internal diameter (μm)	200			
	Membrane thickness (μm)	40			
	Effective surface area (m <sup>2</sup> )	1.3	1.5	1.8	2.1
	Effective length (mm)	263			
Blood volume* (mL)		83	96	111	130
Maximum TMP {kPa(mmHg)}		66 (500)			
Range of blood flow rates (mL/min)		100 – 400			
Maximum dialysate flow (mL/min)		1,000			
Sterilization		Gamma-ray Irradiation			
UFR** {mL/hr/mmHg, at 13.3kPa (100mmHg)}		41	47	50	53
Albumin sieving coefficient		0.003*			
Clearance***(mL/min)					
	Urea	193	194	195	196
	Creatinine	183	186	190	193
	Phosphate	177	182	188	193
	Vitamin B <sub>12</sub>	137	145	151	161
	Inulin	104	116	123	132

\* Typical data measured.

\*\* Typical data with bovine blood.

Ht: 32 ±2%, TP: 6.0~6.5g/dL, Q<sub>B</sub>: 200 ±4mL/min, Temp.: 37 ±1°C

\*\*\* Typical data measured with aqueous solution.

Q<sub>B</sub>: 200 ±4mL/min, Q<sub>D</sub>: 500 ±10mL/min, Q<sub>F</sub>: 10 ±2mL/min, Temp.: 37 ±1°C

# TORAY

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