

MARS[®] treatment kit

—type 1115/1—PrisMARS



MARS[®] Molecular Adsorbents
Recirculating System

 **GAMBRO[®]**

DATA SHEET MARS® TREATMENT KIT TYPE 1115/1 – PrisMARS	
Material number	800475
Compatibility	MARS® Monitor 1 TC in combination with the PRISMA
Extracorporeal blood volume	total 223 ml = 42 ml (PRISMA tubes) + 152 ml (MARS® FLUX 2.1) + 29 ml (2 x extensions)

MARS® FLUX 2.1	
High flux dialyzer especially suited for removing protein-bound toxins from the patient's blood by means of an human serum albumin (HSA) dialyzer.	
Effective surface area	2.1 m ²
Priming volume	152 ml
Volume HSA dialyzer side	125 ml
Performance data (according to EN 1283) Clearance (HD) Q _B = 200 ml/min, Q _D = 500 ml/min, UF = 0 ml/min, +/- 20 %	
Urea	195 ml/min
Creatinine	187 ml/min
Vitamine B12	149 ml/min
Ultrafiltration rate in vitro Measured using bovine blood	
at Q _B = 300 ml/min, TMP = 200 mmHg	133 ml/min
at Q _B = 500 ml/min, TMP = 200 mmHg	180 ml/min
UF-coefficient in vitro	83 ml/h*mmHg
Sieving coefficients (according to EN 1283) +/-20% Measured using bovine blood at Q _B = 300 ml/min	
Inulin	0.99
β2-Microglobulin	0.63
Albumin	< 0.01
Connections Dialyzer and blood connectors according to EN 1283	

diaFLUX 1.4	
Low flux dialyzer to be used to remove water-soluble toxins from the human serum albumin (HSA) dialyzer of the MARS® circuit.	
Effective surface area	1.4 m ²
Performance data (according to EN 1283) In vitro clearance specifications. Co-current, saline 37°C, Q _B = 200 ml/min, Q _D = 1000 ml/h, UF = 0 ml/min, +/-20%	
Urea	15 ml/min
Vitamin B12	15 ml/min
Inulin	14 ml/min
Sieving coefficients—typical values (according to EN1283) Bovine plasma, protein content 60 g/l, 37°C, Q _B = 200ml/min, UF = 20 ml/min	
Urea, Creatinine, Vitamin B12, Inulin	1
Albumin	< 0.01
Water permeability	16 ml/(h*mmHg*m ²)
Max. transmembrane pressure	600 mmHg
Connections to MARS® FLUX 2.1 dialyzer	according to EN 1283
Others	Luer; ISO 594 1/2

Adsorber cartridges
<p>diaMARS® AC250 This adsorber cartridge is filled with vapor-activated carbon, to be used to clean the HSA dialyzer in the MARS® circuit. The carbon is uncoated and especially suited for elimination of low-molecular, non-polar compounds, such as aromatic polycyclic hydrocarbons or fatty acids.</p>
<p>diaMARS® IE250 This adsorber cartridge is filled with an ion-exchanger resin, to be used to clean the HSA dialyzer in the MARS® circuit. This cartridge is especially suited for eliminating anionic molecules, such as bilirubin.</p>

Sterilization	MARS® FLUX 2.1	steam
	PrisMARS kit	EtO
	Adsorber	moist heat
	Tube kit	gamma
Storage conditions	between 8° and 27°C	
Weight and packaging	3.2 kg, 430 x 250 x 340 mm (W x H x D)	
Dialyzer MARS® circuit*	500 ml with 20% (or 400 ml with 25%) human serum albumin (HSA)* (according to the latest edition of the European Pharmacopeia, monograph 255: albumin solution from human)	
Dialyzer PRISMA*	Lactate or bicarbonate solution (according to the latest edition of the European Pharmacopeia, monograph 128: hemodialysis solutions)	
Rinsing volumes	blood + dialyzer circuit 2 l MARS® circuit 4.5 l	
Rinsing solutions MARS® circuit*	0.9% NaCl solution or lactate solution for hemofiltration or bicarbonate solution for hemofiltration	
Kit components	<ul style="list-style-type: none"> - MARS® FLUX 2.1 - PrisMARS kit (diaFLUX filter) - Adsorber cartridges - diaMARS® AC250 - diaMARS® IE250 - Tube kit AS-02 (units 1 - 4, Accessories incl. heating bag (A)) - 2 x Adapter kit 002 - Manual 	

*not included in the kit

