Better Care Better Life

JIANGXI SANXIN MEDTEC CO.,LTD.
No.999 Fushan Road, Xiaolan Economic Development Zone, 330200, Nanchang, Jiangxi, P.R.China.
+86-791-85950275 +86-791-85950275
sales@sanxin-med.com
www.sanxin-med.com/en/

Sansin

HOLLOW FIBER DIALYZER

JIANGXI SANXIN MEDTEC CO.,LTD.

HOLLOW FIBER DIALYZER

Low Flux

Wet Membrane

BPA FREE

Technical Features

- **Excellent Biocompatibility**
  Reduce the probability of allergic reaction. Through wet filling technology, the filling solution can fully infiltrate the dialysis membrane and reduce the probability of allergic reaction.Reducing blood clotting during dialysis.
- **Wet Membrane**
  Reduced Membrane rupture risk.
- **Efficient Removal of Solutes**
  By adopting a novel housing and wave - shaped fibers, the dialysate can flow uniformly to the central part of the membrane, Low-flux, high efficiency high clearance rate of small molecular toxins.
- **Scalable Solutions**
  Compatible with global dialysis machine for seamless integration.

Sansin

IN VITRO PERFORMANCE	W14LS	W15LS	W16LS	W17LS	W18LS	W19LS	W20LS
Effective surface(m^2)	1.4	1.5	1.6	1.7	1.8	1.9	2.0
Blood chamber capacity(mL)	80	88	96	101	106	114	116
Blood chamber pressure drop (mmHg)Q_B=200mL/min	68	69	70	71	72	73	74
Ultrafiltration coeff.(mL/h×mmHg) Q_B=200mL/min:TMP=100mmHg	20	23	25	28	30	31	32
Max blood flow rate(mL/min)	400						
Test conditions	Q_B=200mL/min; Q_D=500mL/min; Q_F=10mL/min						
Urea (mL/min)	192	193	194	195	196	197	198
Creatinine (mL/min)	182	184	186	188	190	192	194
Phosphate (mL/min)	174	176	178	180	182	184	186
VitaminB_{12} (mL/min)	120	122	124	126	128	130	132
Test conditions	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min						
Urea (mL/min)	252	254	256	258	260	262	264
Creatinine (mL/min)	236	238	240	243	245	247	249
Phosphate (mL/min)	221	223	225	227	230	232	235
VitaminB_{12} (mL/min)	129	132	135	137	140	143	145
Test conditions	Q_B=400mL/min; Q_D=500mL/min; Q_F=10mL/min						
Urea (mL/min)	292	294	296	298	300	302	304
Creatinine (mL/min)	269	272	275	278	280	282	284
Phosphate (mL/min)	250	253	256	258	260	262	264
VitaminB_{12} (mL/min)	145	148	150	153	155	157	158
KoA urea (mL/min)	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min						
	848.55	874.4	901.61	930.33	960.7	992.89	1027.12
Wall thickness	40±5 µm						
Internal diameter	200±15 µm						
Membrane material	PES						
Housing material	Polypropylene						
Sterilization	Gamma rays or electron beams						
Units per box	12						

Clearance in vitro: Q_d = 500mL/min; Q_f = 10mL/min; T = 37°±1C
Bovine plasma: Q_B = 300mL/min
Protein content: 60±5g/L
TMP = 100mmHg

Sansin

HOLLOW FIBER DIALYZER

Technical Features

- **Excellent Biocompatibility**
  Reduce the probability of allergic reaction. Through wet filling technology, the filling solution can fully infiltrate the dialysis membrane and reduce the probability of allergic reaction.Reducing blood clotting during dialysis.

- **Wet Membrane**
  Reduced Membrane rupture risk.

- **Efficient Removal of Solutes**
  By adopting a novel housing and wave - shaped fibers, the dialysate can flow uniformly to the central part of the membrane, High-flux, high retention: excellent performance in clearing medium and large molecules, reducing protein loss.

- **Scalable Solutions**
  Compatible with global dialysis machine for seamless integration.

IN VITRO PERFORMANCE	W15HS	W16HS	W17HS	W18HS	W19HS	W20HS
Effective surface(m^2)	1.5	1.6	1.7	1.8	1.9	2.0
Blood chamber capacity(mL)	90	95	102	110	115	120
Blood chamber pressure drop (mmHg)Q_B=200mL/min	64	60	56	53	50	47
Ultrafiltration coeff.(mL/h×mmHg) Q_B=200mL/min:TMP=100mmHg	55	60	62.5	65	67.5	70
Max blood flow rate(mL/min)	400					
Test conditions	Q_B=200mL/min; Q_D=500mL/min; Q_F=10mL/min					
Urea (mL/min)	194	195	196	197	197	198
Creatinine (mL/min)	183	185	187	190	192	195
Phosphate (mL/min)	179	181	183	185	187	190
VitaminB_{12} (mL/min)	140	155	160	165	170	175
Test conditions	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min					
Urea (mL/min)	263	267	271	275	277	280
Creatinine (mL/min)	245	250	255	260	265	270
Phosphate (mL/min)	230	235	242	250	256	262
VitaminB_{12} (mL/min)	160	175	185	195	201	208
Test conditions	Q_B=400mL/min; Q_D=500mL/min; Q_F=10mL/min					
Urea (mL/min)	300	320	325	330	335	340
Creatinine (mL/min)	280	295	300	305	311	317
Phosphate (mL/min)	270	280	287	295	300	305
VitaminB_{12} (mL/min)	170	190	195	200	206	212
KoA urea (mL/min)	Q_B=200mL/min; Q_D=500mL/min; Q_F=10mL/min					
	1009.74	1082.78	1166.7	1264.8	1320.64	1415.3
β_2 - MG	≥0.6					
Myohemoglobin	≥0.5					
Inulin	1.0±0.1					
Albumin	≤0.01					
Wall thickness	40±5 μm					
Internal diameter	200±15 μm					
Membrane material	PES					
Housing material	Polypropylene					
Sterilization	Gamma rays or electron beams					
Units per box	12					

Clearance in vitro: Q_d = 500mL/min; Q_f = 10mL/min; T = 37°±1C
Bovine plasma: Q_B = 300mL/min
Protein content: 60±5g/L
TMP = 100mmHg

Sansin

HOLLOW FIBER DIALYZER

Low Flux

Technical Features

- High - quality membrane material

  Using polyethersulfone dialysis membrane. The smooth and dense inner surface of the dialysis membrane is close to natural blood vessels, possessing more excellent biocompatibility and anticoagulant function. Meanwhile, the PVP cross - linking technology is adopted to reduce the leaching of PVP.

- Excellent Biocompatibility

  Reducing immune response and blood clotting during dialysis.

- Strong Endotoxin Retention Capacity

  The asymmetric membrane structure effectively retains endotoxins, ensuring the safety of patients' dialysis.

- Scalable Solutions

  Compatible with global dialysis machine for seamless integration.

IN VITRO PERFORMANCE	SM120L	SM130L	SM140L	SM150L	SM160L	SM170L	SM180L	SM190L	SM200L	SM210L	SM220L
Effective surface(m^2)	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
Blood chamber capacity(mL)	74	77	80	88	96	101	106	114	116	118	120
Blood chamber pressure drop (mmHg)Q_B=200mL/min	78	72	68	64	60	56	53	50	47	45	43
Ultrafiltration coeff.(mL/h×mmHg) Q_B=200mL/min:TMP=100mmHg	12	13	14	15	16	17	18	19	20	21	22
Max blood flow rate(mL/min)	400										
Test conditions	Q_B=200mL/min; Q_D=500mL/min; Q_F=10mL/min										
Urea (mL/min)	175	176	177	181	186	190	191	192	193	194	195
Creatinine (mL/min)	159	160	161	169	178	181	183	184	185	185	186
Phosphate (mL/min)	150	152	155	157	165	166	167	168	170	172	174
VitaminB$_{12}$ (mL/min)	95	100	105	106	107	112	115	117	120	122	124
Test conditions	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min										
Urea (mL/min)	225	227	229	236	243	247	251	253	256	257	258
Creatinine (mL/min)	211	212	214	217	220	225	231	234	238	240	242
Phosphate (mL/min)	200	206	213	216	220	225	230	235	240	242	244
VitaminB$_{12}$ (mL/min)	100	106	112	114	116	120	125	130	135	138	140
Test conditions	Q_B=400mL/min; Q_D=500mL/min; Q_F=10mL/min										
Urea (mL/min)	257	261	266	270	275	280	285	290	295	297	299
Creatinine (mL/min)	219	225	229	238	248	252	257	261	266	269	272
Phosphate (mL/min)	205	224	243	244	245	247	250	255	260	263	265
VitaminB$_{12}$ (mL/min)	106	118	130	132	135	137	140	145	150	154	157
KoA urea (mL/min)	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min										
	591.34	606.14	621.46	679.68	746.4	789.2	836.11	861.31	901.61	915.78	930.33
Wall thickness	40±5 μm										
Internal diameter	200±15 μm										
Membrane material	PES										
Housing material	Polycarbonate										
Sterilization	Gamma rays or electron beams										
Units per box	30										

Clearance in vitro: Q_d = 500mL/min; Q_f = 10mL/min; T = 37°±1C
Bovine plasma: Q_B = 300mL/min
Protein content: 60±5g/L
TMP = 100mmHg

HOLLOW FIBER DIALYZER

Technical Features

- **High - quality membrane material**

  Using polyethersulfone dialysis membrane. The smooth and dense inner surface of the dialysis membrane is close to natural blood vessels, possessing more excellent biocompatibility and anticoagulant function. Meanwhile, the PVP cross - linking technology is adopted to reduce the leaching of PVP.

- **Excellent Biocompatibility**

  Reducing immune response and blood clotting during dialysis.

- **Strong Endotoxin Retention Capacity**

  The asymmetric membrane structure effectively retains endotoxins, ensuring the safety of patients' dialysis.

- **Scalable Solutions**

  Compatible with global dialysis machine for seamless integration.

IN VITRO PERFORMANCE	SM120H	SM130H	SM140H	SM150H	SM160H	SM170H	SM180H	SM190H	SM200H	SM210H	SM220H
Effective surface(m^2)	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
Blood chamber capacity(mL)	75	80	85	90	95	102	110	115	120	125	130
Blood chamber pressure drop (mmHg)Q_B=200mL/min	78	72	68	64	60	56	53	50	47	45	43
Ultrafiltration coeff.(mL/h×mmHg) Q_B=200mL/min:TMP=100mmHg	44	47	50	55	60	62.5	65	67.5	70	72.5	75
Max blood flow rate(mL/min)	400										
Test conditions	Q_B=200mL/min; Q_D=500mL/min; Q_F=10mL/min										
Urea (mL/min)	191	192	193	194	195	196	197	197	198	199	200
Creatinine (mL/min)	179	180	181	183	185	187	190	192	195	197	199
Phosphate (mL/min)	176	177	178	179	181	183	185	187	190	193	195
VitaminB_{12} (mL/min)	130	132	135	140	155	160	165	170	175	179	183
Test conditions	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min										
Urea (mL/min)	255	257	260	263	267	271	275	277	280	282	285
Creatinine (mL/min)	230	235	240	245	250	255	260	265	270	273	276
Phosphate (mL/min)	215	220	225	230	235	242	250	256	262	265	268
VitaminB_{12} (mL/min)	135	142	150	160	175	185	195	201	208	212	215
Test conditions	Q_B=400mL/min; Q_D=500mL/min; Q_F=10mL/min										
Urea (mL/min)	280	285	290	300	320	325	330	335	340	344	348
Creatinine (mL/min)	260	265	270	280	295	300	305	311	317	322	326
Phosphate (mL/min)	240	250	260	270	280	287	295	300	305	308	311
VitaminB_{12} (mL/min)	150	155	160	170	190	195	200	206	212	215	218
KoA urea (mL/min)	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min										
	887.83	915.78	960.7	1009.74	1082.78	1166.7	1264.8	1320.64	1415.3	1487.47	1613.82
β_2 - MG	⩾0.6										
Myohemoglobin	⩾0.5										
Inulin	0.9× (1±10%)										
Albumin	⩽0.01										
Wall thickness	40±5 μm										
Internal diameter	200±15 μm										
Membrane material	PES										
Housing material	Polycarbonate										
Sterilization	Gamma rays or electron beams										
Units per box	30										

Clearance in vitro: Q_d = 500mL/min; Q_f = 10mL/min; T = 37°±1C
Bovine plasma: Q_B = 300mL/min
Protein content: 60±5g/L
TMP = 100mmHg

Sansin

HOLLOW FIBER DIALYZER

Low Flux

BPA FREE

Technical Features

- BPA-free

  The new - generation hemodialyzer uses polypropylene for blood caps and housings, enabling low - carbon, green and healthy dialysis.

- Low-flux, high efficiency

  High clearance rate of small molecular toxins.

- Strong Endotoxin Retention Capacity

  The asymmetric membrane structure effectively retains endotoxins, ensuring the safety of pat-ients' dialysis.

- Scalable Solutions

  Compatible with global dialysis machine for seamless integration.

IN VITRO PERFORMANCE	SP150L	SP160L	SP170L	SP180L	SP190L	SP200L	SP210L	SP220L
Effective surface(m^2)	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
Blood chamber capacity(mL)	88	96	101	106	114	116	118	120
Blood chamber pressure drop (mmHg)Q_B=200mL/min	64	60	56	53	50	47	45	43
Ultrafiltration coeff.(mL/h×mmHg) Q_B=200mL/min:TMP=100mmHg	15	16	17	18	19	20	21	22
Max blood flow rate(mL/min)	500							
Test conditions	Q_B=200mL/min; Q_D=500mL/min; Q_F=10mL/min							
Urea (mL/min)	181	186	190	191	192	193	194	195
Creatinine (mL/min)	169	178	181	183	184	185	185	186
Phosphate (mL/min)	157	165	166	167	168	170	172	174
VitaminB_{12} (mL/min)	106	107	112	115	117	120	122	124
Test conditions	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min							
Urea (mL/min)	236	243	247	251	253	256	257	258
Creatinine (mL/min)	217	220	225	231	234	238	240	242
Phosphate (mL/min)	216	220	225	230	235	240	242	244
VitaminB_{12} (mL/min)	114	116	120	125	130	135	138	140
Test conditions	Q_B=400mL/min; Q_D=500mL/min; Q_F=10mL/min							
Urea (mL/min)	270	275	280	285	290	295	297	299
Creatinine (mL/min)	238	248	252	257	261	266	269	272
Phosphate (mL/min)	244	245	247	250	255	260	263	265
VitaminB_{12} (mL/min)	132	135	137	140	145	150	154	157
KoA urea (mL/min)	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min							
	679.68	746.4	789.2	836.11	861.31	901.61	915.78	930.33
Wall thickness	40±5 μm							
Internal diameter	200±15 μm							
Membrane material	PES							
Housing material	Polypropylene							
Sterilization	Gamma rays or electron beams							
Units per box	30							

Clearance in vitro: Q_d = 500mL/min; Q_f = 10mL/min; T = 37°±1C
Bovine plasma: Q_B = 300mL/min
Protein content: 60±5g/L
TMP = 100mmHg

HOLLOW FIBER DIALYZER

High Flux

BPA FREE

Technical Features

- BPA-free

  The new - generation hemodialyzer uses polypropylene for blood caps and housings, enabling low - carbon, green and healthy dialysis.

- High-flux, high retention

  Excellent performance in clearing medium and large molecules, reducing protein loss.

- Strong Endotoxin Retention Capacity

  The asymmetric membrane structure effectively retains endotoxins, ensuring the safety of patients' dialysis.

- Scalable Solutions

  Compatible with global dialysis machine for seamless integration.

IN VITRO PERFORMANCE	SP150H	SP160H	SP170H	SP180H	SP190H	SP200H	SP210H	SP220H
Effective surface(m^2)	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
Blood chamber capacity(mL)	90	95	102	110	115	120	125	130
Blood chamber pressure drop (mmHg)Q_B=200mL/min	64	60	56	53	50	47	45	43
Ultrafiltration coeff.(mL/h×mmHg) Q_B=200mL/min:TMP=100mmHg	55	60	62.5	65	67.5	70	72.5	75
Max blood flow rate(mL/min)	500							
Test conditions	Q_B=200mL/min; Q_D=500mL/min; Q_F=10mL/min							
Urea (mL/min)	194	195	196	197	197	198	199	200
Creatinine (mL/min)	183	185	187	190	192	195	197	199
Phosphate (mL/min)	179	181	183	185	187	190	193	195
VitaminB_{12} (mL/min)	140	155	160	165	170	175	179	183
Test conditions	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min							
Urea (mL/min)	263	267	271	275	277	280	282	285
Creatinine (mL/min)	245	250	255	260	265	270	273	276
Phosphate (mL/min)	230	235	242	250	256	262	265	268
VitaminB_{12} (mL/min)	160	175	185	195	201	208	212	215
Test conditions	Q_B=400mL/min; Q_D=500mL/min; Q_F=10mL/min							
Urea (mL/min)	300	320	325	330	335	340	344	348
Creatinine (mL/min)	280	295	300	305	311	317	322	326
Phosphate (mL/min)	270	280	287	295	300	305	308	311
VitaminB_{12} (mL/min)	170	190	195	200	206	212	215	218
KoA urea (mL/min)	Q_B=300mL/min; Q_D=500mL/min; Q_F=10mL/min							
	1009.74	1082.78	1166.7	1264.8	1320.64	1415.3	1487.47	1613.82
β_2 - MG	⩾0.6							
Myohemoglobin	⩾0.5							
Inulin	0.9×(1±10%)							
Albumin	⩽0.01							
Wall thickness	40±5 μm							
Internal diameter	200±15 μm							
Membrane material	PES							
Housing material	Polypropylene							
Sterilization	Gamma rays or electron beams							
Units per box	30							

Clearance in vitro: Q_d = 500mL/min; Q_f = 10mL/min; T = 37°±1C

Bovine plasma: Q_B = 300mL/min

Protein content: 60±5g/L

TMP = 100mmHg