

Atviro (tarptautinio) konkurso sąlygų
1 priedas



UAB „B. Braun Avitum“

Miškinių g. 6a, Vilnius LT-04132, tel. 852505989, Korespondencijos adresas: Viršuliškių skg. 34-1, Vilnius LT-05132, duomenys apie įmonę kaupiami ir saugomi valstybinės įmonės Registrų centro Vilniaus filiale, Juridinių asmenų registre, juridinio asmens kodas 300556854, PVM mokėtojo kodas LT 100002499513

VšĮ Klaipėdos universiteto ligoninei,
(Adresatas (perkančioji organizacija))

**PASIŪLYMAS
DĖL HEMODIALIZĖS PRIEMONIŲ PIRKIMO**

2023-07-25

(Data)

Vilnius

(Sudarymo vieta)

Tiekėjo pavadinimas /Jeigu dalyvauja ūkio subjektų grupė, surašomi visi dalyvių pavadinimai/	UAB B.Braun Avitum
Tiekėjo adresas /Jeigu dalyvauja ūkio subjektų grupė, surašomi visi dalyvių adresai/	Miškinių g. 6a, LT-04132 Vilnius Korespondencijos adresas: Viršuliškių skg. 34-1, LT-05132 Vilnius
Už pasiūlymą atsakingo asmens vardas, pavardė	Vincas Vaitiekūnas
Telefono numeris	+37052505989
Fakso numeris	-
El. pašto adresas	Info.lt@bbraun.com
Tiekėjo (įmonės) kodas	300556854

Vykdamą sutartį pasitelksiu šiuos subteikėjus (subteikėjus):

Pastaba. Pildoma, jei tiekėjas ketina pasitelkti subrangovą (-us), subteikėją (-us); ar subteikėją (-us)/

Subteikėjo (-ų) pavadinimas (-ai)	
Subteikėjo (-ų) adresas (-ai)	
Įsipareigojimų dalis (procentais), kuriai ketinama pasitelkti subteikėją (-us)	
Sutarties objekto dalis (-ys), kuriai(-oms) ketinama pasitelkti subteikėją (-us)	

1. Šiuo pasiūlymu pažymime, kad sutinkame su visomis pirkimo sąlygomis, nustatytomis:

- 1) atviro konkurso skelbime, paskelbtame Viešųjų pirkimų įstatymo nustatyta tvarka, CVP IS ir Europos Sąjungos oficialiajame leidinyje;
- 2) atviro konkurso sąlygose;
- 3) kituose pirkimo dokumentuose (jų paaiškinimuose, papildymuose).

2. Pasirašydamas CVP IS priemonėmis pateiktą pasiūlymą saugiu elektroniniu parašu, patvirtinu, kad dokumentų skaitmeninės kopijos ir elektroninėmis priemonėmis pateikti duomenys yra tikri.

3. Teikdami šį pasiūlymą patvirtiname, kad esame tinkamai įsisteigę ir teisėtai veikiame pagal Lietuvos Respublikos įstatymus, taip pat esame atlikę visus teisinius veiksmus, būtinus, kad pirkimo sutartis būtų tinkamai sudaryta ir galiotų, ir turime visus teisės aktais numatytus leidimus, licencijas, darbuotojus, reikalingus prekėms tiekti.

4. Mes siūlome šias hemodializės priemones (pateikiame užpildytą pirkimo sąlygų 2 priedą) ir patvirtiname, kad mūsų siūlomos prekės atitinka visus šiose konkurso sąlygose nurodytus keliamus reikalavimus.

Tais atvejais, kai pagal galiojančius teisės aktus tiekėjui nereikia mokėti PVM, jis lentelės PVM skilties nepildo ir nurodo priežastis, dėl kurių PVM nemoka.

5. Perkančioji organizacija laimėjusio dalyvio pasiūlymą, sudarytą pirkimo sutartį, preliminarią sutartį ir šių sutarčių pakeitimus, išskyrus informaciją, kurios atskleidimas prieštarautų informacijos ir duomenų apsaugą reguliuojantiems teisės aktams arba visuomenės interesams, pažeistų teisėtus konkretaus tiekėjo komercinius interesus arba turėtų neigiamą poveikį tiekėjų konkurencijai, ne vėliau kaip per 15 dienų nuo pirkimo sutarties ar preliminariosios sutarties sudarymo ar jų pakeitimo, bet ne vėliau kaip iki pirmojo mokėjimo pagal ją pradžios Viešųjų pirkimų tarnybos nustatyta tvarka turi paskelbti Centrinėje viešųjų pirkimų informacinėje sistemoje. Tiekėjai pasiūlyme turi nurodyti, kokia pasiūlyme pateikta informacija yra konfidenciali. Šiame pasiūlyme pateikta ir konfidenciali informacija* (Pildyti tuomet, jei bus pateikiama konfidenciali informacija):

Eil. Nr.	Pateikto dokumento pavadinimas	Dokumentas yra įkeltas pasiūlymo lango eilutėje „Prisegti dokumentai“

*Konfidencialia informacija gali būti, įskaitant, bet ja neapsiribojant, komercinė (gamybinė) paslaptis ir konfidencialieji pasiūlymų aspektai. Konfidencialia negalima laikyti informacijos nurodytos VPĮ 20 str. 2 d. Tiekėjas neturi teisės nurodyti, kad visa pasiūlyme pateikta informacija yra konfidenciali. Tiekėjas turi aiškiai nurodyti, kokie su pasiūlymu pateikti dokumentai laikytini konfidencialiais. **Jei tiekėjas nenurodo konfidencialios informacijos, laikoma, kad tokios tiekėjo pasiūlyme nėra.**

6. Kartu su pasiūlymu pateikiami šie dokumentai (pasirašydamas pasiūlymą saugiu elektroniniu parašu patvirtinu, kad dokumentų skaitmeninės kopijos yra tikros):

Eil. Nr.	Pateiktų dokumentų pavadinimas	Dokumento puslapių skaičius
1.	BBA įgaliojimas 2023 su vertimu	2 psl.
2.	EBVPD	14 psl.
3.	BBA patvirtinimas	1 psl.
4.	BBA techninė specifikacija	4 psl.
5.	Bendras EC sertifikatas priemonėms	1 psl.
6.	Avitum produktu katalogas	40 psl.
7.	Katalogas p.d. 2.1.	2 psl.
8.	Katalogas p.d. 2.5	4 psl.

7. Pasiūlymas galioja iki termino, nustatyto pirkimo dokumentuose.

Generalinė direktorė _____
(Tiekėjo arba jo įgalioto asmens pareigų pavadinimas)

(Parašas)

Rasa Narkienė
(Vardas ir pavardė)



**HEMODIALIZĖS PRIEMONĖS
TECHNINĖ SPECIFIKACIJA**

Dalies Nr.	Prekių pavadinimai ir reikalavimų parametrai	Atitikimas reikalavimams (užpildyti nurodant konkrečias siūlomų prekių savybes pagal 2 stulpelio reikalavimus)	Preliminarus prekių kiekis vienetais metams	Vieneto kaina €, be PVM	Bendra kaina €, be PVM (4*5)	PVM, Proc.	Bendra kaina €, su PVM (6+PVM)	Siūlomos prekės pavadinimas, gamintojas, pakuotė, nuoroda į pridedamą aprašymo puslapį
1	2	3	4	5	6	7	8	9
1.	Dializatoriai							
1.1	Aukšto pralaidumo vidutinio ploto dializatoriai. Membrana pagaminta polisulfono pagrindu. Darbinis membranos plotas 1,8±0,05 m ² , UF koeficientas didesnis arba lygus 99, klirensai, esant kraujo tėkmės greičiui 300ml/min, dializuojančio tirpalo tėkmės greičiui 500ml/min (UF=0), turi būti didesnis arba lygus: urea -281 ml/min, kreatininas 263- ml/min, fosfatai - 263ml/min, vit. B12- 184 ml/min .Pakuotės viduje turi būti specialus paketas absorbuojantis deguonį. Sterilizacija gamma spinduliais.(pateikti gamintojo patvirtinanatį dokumentą)	Membrana pagaminta polisulfono pagrindu. Darbinis membranos plotas 1,8m ² , UF koeficientas 99, klirensai, esant kraujo tėkmės greičiui 300ml/min, dializuojančio tirpalo tėkmės greičiui 500ml/min (UF=0): urea - 281 ml/min, kreatininas 263 ml/min, fosfatai 263ml/min, vit. B12 184 ml/min. Pakuotės viduje yra specialus paketas absorbuojantis deguonį. Sterilizacija gamma spinduliais. <u>Patvirtinimas pridėtas prie bendrų dokumentų.</u>	600 vnt.	11,35	6810,00	5	7150,50	Xevonta HI 18 k. 7204657, B.Braun Avitum AG, pak. N20, Avitum produktų katalogas psl. 5

Dalies Nr.	Prekių pavadinimai ir reikalavimų parametrai	Atitikimas reikalavimams (užpildyti nurodant konkrečias siūlomų prekių savybes pagal 2 stulpelio reikalavimus)	Preliminarus prekių kiekis vienetais metams	Vieneto kaina €, be PVM	Bendra kaina €, be PVM (4*5)	PVM, Proc.	Bendra kaina €, su PVM (6+PVM)	Siūlomos prekės pavadinimas, gamintojas, pakuotė, nuoroda į pridedamą aprašymo puslapį
1	2	3	4	5	6	7	8	9
1.2	Aukšto pralaidumo vidutinio ploto dializatoriai. Membrana pagaminta polisulfono pagrindu. Darbinis membranos plotas 2,0±0,05 m ² , UF koeficientas didesnis arba lygus 111, klirensai, esant kraujo tėkmės greičiui 300ml/min, dializuojančio tirpalo tėkmės greičiui 500ml/min (UF=0), turi būti didesnis arba lygus: urea -287 ml/min, kreatininas 271- ml/min, fosfatai - 271ml/min, vit. B12- 195 ml/min., sievingo koeficientas :albuminas turi būti ne didesnis kaip 0,001. Pakuotės viduje turi būti specialus paketas absorbuojantis deguonį. Sterilizacija gamma spinduliais.(pateikti gamintojo patvirtinanatį dokumentą)	Membrana pagaminta polisulfono pagrindu. Darbinis membranos plotas 2,0 m ² , UF koeficientas 111, klirensai, esant kraujo tėkmės greičiui 300ml/min, dializuojančio tirpalo tėkmės greičiui 500ml/min (UF=0).; urea - 287 ml/min, kreatininas 271- ml/min, fosfatai - 271ml/min, vit. B12- 195 ml/min., sievingo koeficientas: albuminas <0,001. Pakuotės viduje yra specialus paketas absorbuojantis deguonį. Sterilizacija gamma spinduliais. <u>Patvirtinimas pridėtas prie bendru dokumentu.</u>	3000 vnt.	12,00	36000,00	5	37800,00	Xevonta HI 20 k. 7204665, B.Braun Avitum AG, pak. N20, Avitum produktų katalogas psl. 5
1.3	Aukšto pralaidumo vidutinio ploto dializatoriai. Membrana pagaminta polisulfono pagrindu. Darbinis membranos plotas 2,3±0,05 m ² , UF koeficientas didesnis arba lygus 124, klirensai, esant kraujo tėkmės greičiui 300ml/min, dializuojančio tirpalo tėkmės greičiui 500ml/min (UF=0), turi būti didesnis arba lygus: urea -290 ml/min, kreatininas 276- ml/min, fosfatai - 277ml/min, vit. B12- 204 ml/min., sievingo koeficientas :albuminas turi būti ne didesnis kaip 0,001, inulino 144. Pakuotės viduje turi būti specialus paketas absorbuojantis deguonį. Sterilizacija gamma spinduliais.(pateikti gamintojo patvirtinanatį dokumentą)	Membrana pagaminta polisulfono pagrindu. Darbinis membranos plotas 2,3 m ² , UF koeficientas 124, klirensai, esant kraujo tėkmės greičiui 300ml/min, dializuojančio tirpalo tėkmės greičiui 500ml/min (UF=0).; urea - 290 ml/min, kreatininas 276- ml/min, fosfatai - 277ml/min, vit. B12- 204 ml/min., sievingo koeficientas: albuminas <0,001, inulino 144. Pakuotės viduje yra	500 vnt.	12,70	6350,00	5	6667,50	Xevonta HI 23 k. 7204670, B.Braun Avitum AG, pak. N20, Avitum produktų katalogas psl. 5

Dalies Nr.	Prekių pavadinimai ir reikalavimų parametrai	Atitikimas reikalavimams (užpildyti nurodant konkrečias siūlomų prekių savybes pagal 2 stulpelio reikalavimus)	Preliminarus prekių kiekis vienetais metams	Vieneto kaina €, be PVM	Bendra kaina €, be PVM (4*5)	PVM, Proc.	Bendra kaina €, su PVM (6+PVM)	Siūlomos prekės pavadinimas, gamintojas, pakuotė, nuoroda į pridedamą aprašymo puslapį
1	2	3	4	5	6	7	8	9
		specialus paketas absorbuojantis deguonį. Sterilizacija gamma spinduliais. <u>Patvirtinimas pridėtas prie bendrų dokumentų.</u>						
Bendra 1 pirkimo dalies kaina					49160,00	5%	51618,00	
2.	Medicininės priemonės hemodiafiltracijai atlikti:							
2.1	Kraujo magistralė hemodiafiltracijai, tinkanti: „B.Braun Dialog“+ online aparatams. Kraujo magistralių medžiaga be ftalatų (be DEHP). Be latekso, su 900mm atšaka prijungti antikoagulianto švirkštui. Arterinė 22 mm skersmens kamera, veninė 21/30 skersmens lašų kamera su 270mk filtru. Kraujo pompos segmento vidinis diametras Ø 8± 0,1 mm, išorinis Ø12 mm, segmento ilgis 330 mm, 3000 ml talpos maišas, injekcinis portas be latekso, turi būti jungtis išoriniam slėgio davikliui prieš dializatorių, plastikinė adata. Užpildymo tūris ne daugiau kaip 146± 5 ml.	Kraujo magistralių medžiaga be ftalatų. Be latekso, su 900mm atšaka prijungti antikoagulianto švirkštui. Arterinė 22 mm skersmens kamera, veninė 21/30 skersmens lašų kamera su 270mk filtru. Kraujo pompos segmento vidinis diametras Ø 8 mm, išorinis Ø12 mm, segmento ilgis 330 mm, 3000 ml talpos maišas, injekcinis portas be latekso, yra jungtis išoriniam slėgio davikliui prieš dializatorių, plastikinė adata. Užpildymo tūris 145 ml.	2000 vnt.	3,65	7300,00	5	7665,00	DiaStream Classic HD K. 7211509 B.Braun Avitum AG, Katalogas p.d. 2.1, 2 psl. Pak. N25
2.2	HDF- Online adapteris. , Ilgis 1,2 m ± 5 cm ,intarpas 8×10 mm, 33 cm ilgio	HDF- Online adapteris., Ilgis 1,2 m, intarpas 8×10 mm, 33 cm ilgio, tinkantis prie aukščiau siūlomos magistralės	500 vnt.	2,65	1325,00	5	1391,25	HDF online tubing k. 7210558, B.Braun Avitum AG, Avitum produktų katalogas psl. 14. Pak. N25
2.3	Intarpas prediliucijai HDF- Online procedūrai	Intarpas prediliucijai HDF-Online procedūrai, tinkantis prie aukščiau siūlomos magistralės	100 vnt.	1,60	160,00	5	168,00	Pre-dilution adapter k. 7210559, B.Braun Avitum AG, Avitum produktų katalogas psl. 14. Pak. N25

Dalies Nr.	Prekių pavadinimai ir reikalavimų parametrai	Atitikimas reikalavimams (užpildyti nurodant konkrečias siūlomų prekių savybes pagal 2 stulpelio reikalavimus)	Preliminarus prekių kiekis vienetais metams	Vieneto kaina €, be PVM	Bendra kaina €, be PVM (4*5)	PVM, Proc.	Bendra kaina €, su PVM (6+PVM)	Siūlomos prekės pavadinimas, gamintojas, pakuotė, nuoroda į pridedamą aprašymo puslapį
1	2	3	4	5	6	7	8	9
2.4	Daugkartinio panaudojimo pirogeninis filtras , turi tikti Dialog+ aparatui. Membrana pagaminta polisulfono pagrindu. Maksimalus leidžiamas darbinis valandų skaučius ne mažiau kaip 900 val. Sterilizacija gamma spinduliais.	Daugkartinio panaudojimo pirogeninis filtras, turi tikti Dialog+ aparatui. Membrana pagaminta polisulfono pagrindu. Maksimalus leidžiamas darbinis valandų skaučius 900 val. arba 150 procedūrų. Sterilizacija gamma spinduliais.	40 vnt.	260,00	10400,00	5	10920,00	Diacap Ultra k. 7107366, B.Braun Avitum AG, pak. N20. Avitum produktų katalogas psl. 17
2.5	Saugūs fistulių kateteriai G14 ir G16. 25mm ir 32mm ilgio. Ištraukus adatą, adatkotis apgaubiamas spec kabute apsaugančia nuo netyčinio įsidūrimo. Su apsauginiu vožtuvu apsaugančiu nuo atbulinės kraujo srovės	Ištraukus adatą, adatkotis apgaubiamas spec kabute apsaugančia nuo netyčinio įsidūrimo. Su apsauginiu vožtuvu apsaugančiu nuo atbulinės kraujo srovės.	200 vnt.	1,80	360,00	5	378,00	Diacan flex. K. 7021632-01; 7021425-01; 7021432-01; 7021625-01. Katalogas p.d. 2.5. Pak. N50
Bendra 2 pirkimo dalies kaina					19545,00	5	20522,25	
6	Sausos sodos kolonėlės							
6.1	Sausos sodos kolonėlės. Natrio bikarbonato miltelių ne mažiau nei 650 ±5 g	Natrio bikarbonato miltelių 650g.	400 vnt.	2,15	860,00	5	903,00	Solcart 650g, K. 836, B.Braun Avitum AG, pak. N10, Avitum produktų katalogas psl. 33
6.2	Sausos sodos kolonėlės. Natrio bikarbonato miltelių ne mažiau nei: 760 ± 5g	Natrio bikarbonato miltelių 760 g.	3500 vnt.	2,35	8225,00	5	8636,25	Solcart 760g, K. 837, B.Braun Avitum AG, pak. N10, Avitum produktų katalogas psl. 33
6.3.	Sausos sodos kolonėlės. Natrio bikarbonato miltelių ne mažiau nei: 1100 ± 5g	Natrio bikarbonato miltelių 1100 g.	100 vnt.	2,80	280,00	5	294,00	Solcart 1100g, k. 804, B.Braun Avitum AG, pak. N8, Avitum produktų katalogas psl. 33
Bendra 6 pirkimo dalies kaina					9365,00	5	9833,25	

Dalies Nr.	Prekių pavadinimai ir reikalavimų parametrai	Atitikimas reikalavimams (užpildyti nurodant konkrečias siūlomų prekių savybes pagal 2 stulpelio reikalavimus)	Preliminarus prekių kiekis vienetais metams	Vieneto kaina €, be PVM	Bendra kaina €, be PVM (4*5)	PVM, Proc.	Bendra kaina €, su PVM (6+PVM)	Siūlomos prekės pavadinimas, gamintojas, pakuotė, nuoroda į pridedamą aprašymo puslapį
1	2	3	4	5	6	7	8	9
11.	Dezinfekcinės medžiagos hemodializės BBraun aparatams ir vandens paruošimo įrangai. Priemonės dezinfekcinių medžiagų likučiams aptikti hemodializės aparatuose ir vandens paruošimo hemodializei sistemose							
11.1	Juostelės peracto rūgšties likučiams nustatyti;		10 vnt.	20,00	200,00	21	242,00	Juostelės.
11.2	Citrinos rūgštis 50% 10 ltr bakeliuose		80 vnt.	25,00	2000,00	21	2420,00	Citric 50% k. 307 Avitum, B.Braun Avitum AG, pak. N10L, produktų katalogas psl. 34
11.3	Skysta dezinfekcinė medžiaga peracto rūgšties pagrindu, litrai 5 ltr. bakeliuose		5 vnt.	25,00	125,00	21	151,25	Tiutol k. 7120222, B.Braun Avitum AG, pak. N5L, Avitum produktų katalogas psl. 35
Bendra 11 pirkimo dalies kaina					2325,00	21	2813,25	

Product range of dialysis disposables

Reliability only a systems provider can offer.
Optimised therapy with disposables in original B. Braun quality.



Dialysis

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SHARING EXPERTISE

B. Braun, a global systems provider

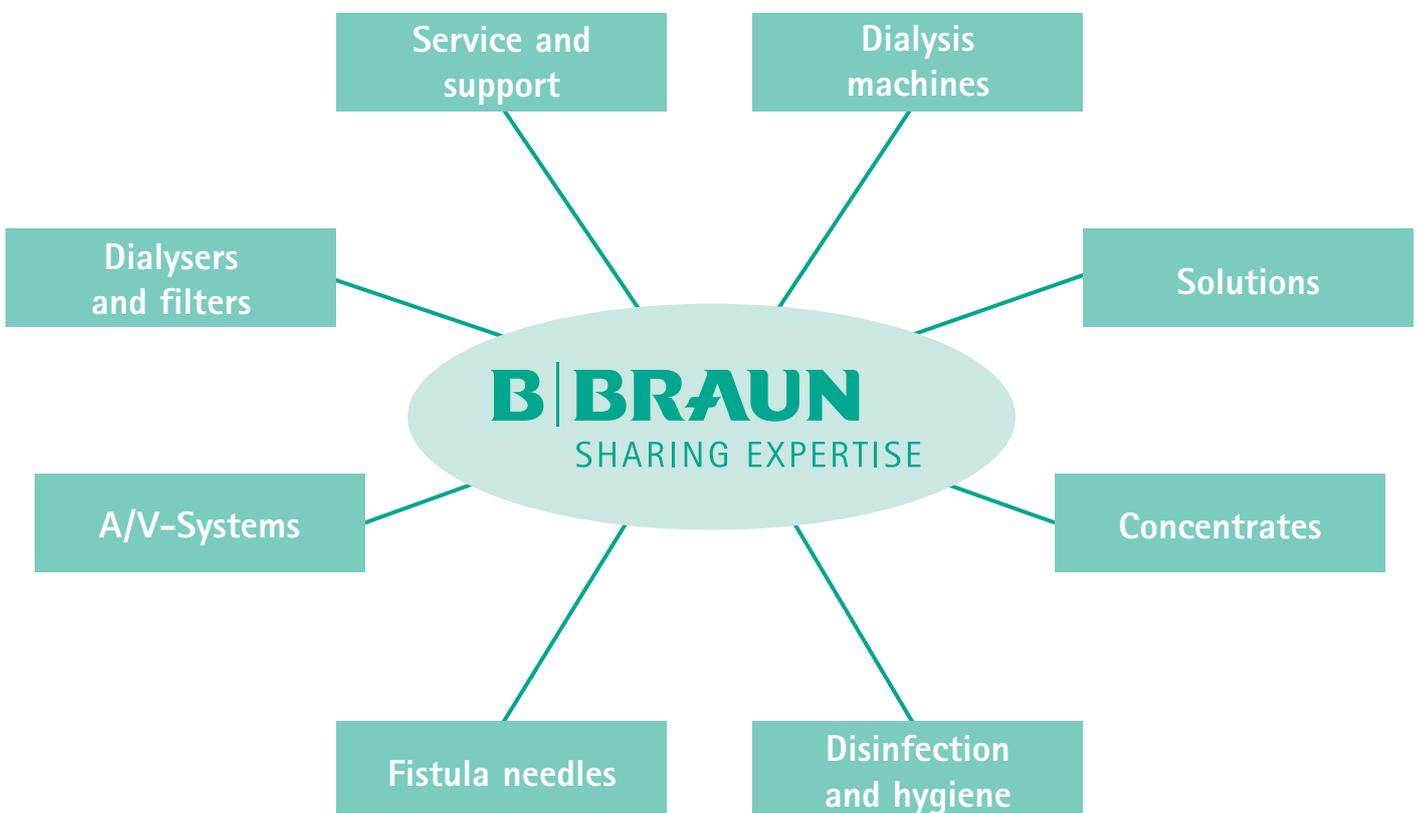
As a globally active group, we offer you the security of an international presence.

The modular dialysis systems by B. Braun feature all the components you need for comprehensive therapy from one single source, coordinated down to finest detail. You also benefit from B. Braun's dependable, consistently high-level quality.

- Excellent products in dependable original B. Braun quality
- All system components are compatible
- First-class, international logistics network
- Global presence: products, services, and support

Intelligent solutions by B. Braun:

One partner to cover all your extracorporeal blood treatment needs



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Note: The mentioned products may not be registered in your country. Product information as registered in Germany. The

product information may differ from country to country. Please contact your local B. Braun partner for further information.

1. Dialysers

1.1 xevonta

xevonta – a new dimension of efficiency and effectiveness.

Using trendsetting high-tech production, B. Braun has developed xevonta, a new high-performance generation that meets the most sophisticated dialyser requirements.

The fibre development for dialysis is characterised by high and unique demands in order to ensure excellent conditions for optimised treatment.

With the amembris membrane various complex demands clearly have been realised. Innovative fibre technology, combined with state-of-the-art housing design and continuous and diligent quality controls in production, have created xevonta.

Product benefits of xevonta:

- Outstanding performance profile for an efficient treatment
- Excellent in small molecule clearance
- Optimal selectivity: maximal β_2 m-elimination with simultaneous minimal albumin loss
- Excellent biocompatibility
- High endotoxin retention
- Minimum rinse volume
- Complete product range:
6 high flux and 6 low flux variants

- Shelf life: 36 months



Technical Data
xevonta high flux dialysers

In vitro performance	Hi 10	Hi 12	Hi 15	Hi 18	Hi 20	Hi 23
Ultrafiltration coefficient (ml/h/mmHg)	58	69	87	99	111	124
Clearances: $Q_b = 200$ ml/min						
Urea	186	191	197	198	199	199
Creatinine	173	182	190	194	196	197
Phosphate	175	183	191	194	196	198
Vitamin B ₁₂	118	129	146	155	161	166
Inulin	73	84	100	110	119	126
Clearances: $Q_b = 300$ ml/min						
Urea	241	255	272	281	287	290
Creatinine	216	232	252	263	271	276
Phosphate	212	228	251	263	271	277
Vitamin B ₁₂	132	148	171	184	195	204
Inulin	78	91	110	122	133	144
Clearances: $Q_b = 400$ ml/min						
Urea	290	306	329	341	349	354
Creatinine	243	262	289	304	316	324
Phosphate	231	254	282	297	309	320
Vitamin B ₁₂	158	174	197	210	220	227
Inulin	89	103	124	138	150	160
Sieving coefficients:						
Inulin	1.0					
β_2 -microglobulin	> 0.8					
Albumin	< 0.001					
Surface (m ²)	1.0	1.2	1.5	1.8	2.0	2.3
Wall thickness/intern. diameter (μ m)	35/195					
Priming volume (ml) bloodside	54	68	90	103	119	135
Membrane material	amembris (PS, PVP)					
Sterilisation	Gamma					
Units per box	20					
Art. No.	7204622	7204630	7204649	7204657	7204665	7204670

In vitro performance and physical data acc to EN 1283
 Clearances: $Q_D = 500$ ml/min, $Q_F = 0$ ml/min; UF-coefficient: ANSI/AAMI RD 16, human blood, Hct. 32 %, total protein 6 %, T = 37°C; Sieving coefficients: $Q_b = 300$ ml/min, $Q_f = 60$ ml/min

Subject to modifications



Technical Data
xevonta low flux dialysers

In vitro Performance	Lo 10	Lo 12	Lo 15	Lo 18	Lo 20	Lo 23
Ultrafiltration coefficient (ml/h/mmHg)	8	9	10	12	14	15
Clearances: $Q_b = 200$ ml/min						
Urea	184	189	194	196	198	199
Creatinine	163	171	182	188	191	192
Phosphate	143	156	170	177	182	187
Vitamin B ₁₂	75	86	101	110	118	124
Clearances: $Q_b = 300$ ml/min						
Urea	236	249	267	276	281	285
Creatinine	201	217	237	248	256	262
Phosphate	168	186	210	223	234	243
Vitamin B ₁₂	86	98	116	127	133	143
Clearances: $Q_b = 400$ ml/min						
Urea	276	291	311	322	329	333
Creatinine	218	238	265	280	292	300
Phosphate	182	205	234	251	265	278
Vitamin B ₁₂	89	103	123	135	145	153
Surface (m ²)	1.0	1.2	1.5	1.8	2.0	2.3
Wall thickness/intern. diameter (µm)	35/195					
Priming volume (ml) bloodside	54	68	90	103	119	135
Membrane material	amembris (PS, PVP)					
Sterilisation	Gamma					
Units per box	20					
Art. No.	7204525	7204533	7204541	7204550	7204568	7204570

In vitro performance and physical data acc to EN 1283

Clearances: $Q_D = 500$ ml/min, $Q_F = 0$ ml/min; UF-coefficient: ANSI/AAMI RD 16, human blood, Hct. 32 %, total protein 6 %, T = 37°C

Subject to modifications

1.2 Diacap® α Polysulfone+ HiFlo

The new HiFlo series with the α Polysulfone+ membrane is based on a further optimised membrane structure which gets still closer to the profile of the human kidney and allows a highly efficient and safe dialysis.

- Shelf life: 36 months

Product benefits of

Diacap® α Polysulfone+ HiFlo:

- MODIFIED POLYSULFONE membrane technology: Even closer to the profile of the human kidney
- Excellent balance between high β_2 m-elimination and minimal albumin loss
- Outstanding phosphate clearance
- Efficient elimination of a wide spectrum of uraemic toxins
- Also ideal for high-volume haemodiafiltration therapies
- Unchanged high biocompatibility and optimal endotoxin retention
- Detachable extra label for 100 % product traceability and medical record keeping

Technical Data: Diacap® α Polysulfone+ HiFlo

In vitro performance	HiFlo 18	HiFlo 23
Ultrafiltration coefficient (ml/h/mmHg)	78	92
Clearances: $Q_b = 400$ ml/min $Q_f = 100$ ml/min		
Urea	354	360
Creatinine	328	342
Phosphate	333	346
Vitamin B ₁₂	250	261
Inulin	190	210
Clearances: $Q_b = 300$ml/min $Q_f = 75$ ml/min		
Urea	283	289
Creatinine	265	276
Phosphate	270	283
Vitamin B ₁₂	210	220
Inulin	165	180
Clearances: $Q_b = 400$ml/min $Q_f = 0$ ml/min		
Urea	298	328
Creatinine	279	302
Phosphate	283	304
Vitamin B ₁₂	177	199
Inulin	116	133
Clearances: $Q_b = 300$ml/min $Q_f = 0$ ml/min		
Urea	257	277
Creatinine	245	260
Phosphate	246	262
Vitamin B ₁₂	164	184
Inulin	110	126
Sieving coefficients:		
Inulin	1	
β_2 -microglobulin	0.8	
Albumin	0.005	
Surface (m ²)	1.8	2.3
Wall thickness/Internal diameter (μm)	38/195	
Priming volume (ml) bloodside	100	120
Membrane material	α Polysulfone+	
Housing material	Polycarbonate	
Potting compound	Polyurethane	
Sterilisation	Gamma	
Units per box	20	
Art. No.	7203673	7203681

In vitro performance and physical data comply with EN 1283; UF coefficient: ANSI/AAMI RD16, bovine blood, Hct 32 %, total protein 6 %, T = 37°C; Clearances: $Q_b = 500$ ml/min; Sieving coefficients: $Q_b = 300$ ml/min, $Q_f = 60$ ml/min

Subject to modifications

Technical Data

Diacap® α Polysulfone high flux dialysers

In vitro performance	HI PS 10	HI PS 12	HI PS 15	HI PS 18	HI PS 20
Ultrafiltration coefficient (ml/h/mmHg)	34	42	50	55	58
Clearances: $Q_b = 200$ ml/min					
Urea	180	186	190	192	194
Creatinine	162	173	178	182	184
Phosphate	160	171	176	180	183
Vitamin B ₁₂	100	115	127	137	143
Inulin	76	89	99	109	114
Clearances: $Q_b = 300$ ml/min					
Urea	223	238	245	250	253
Creatinine	195	213	224	228	232
Phosphate	192	210	220	224	229
Vitamin B ₁₂	112	131	148	160	168
Inulin	84	97	111	120	127
Clearances: $Q_b = 400$ ml/min					
Urea	250	271	288	292	296
Creatinine	213	239	262	270	275
Phosphate	208	235	259	267	273
Vitamin B ₁₂	120	136	160	181	189
Inulin	90	104	120	132	139
Sieving coefficients:					
Inulin	1				
β_2 -microglobulin	0.8				
Albumin	0.005				
Surface (m ²)	1.0	1.2	1.5	1.8	2.0
Wall thickness/Internal diameter (μ m)	40/200				
Priming volume (ml) bloodside	58	68	90	110	121
Membrane material	α Polysulfone				
Housing material	Polycarbonate				
Potting compound	Polyurethane				
Sterilisation	Gamma				
Units per box	20				
Art. No.	7203622	7203630	7203649	7203657	7203665

In vitro performance and physical data comply with EN 1283

(Clearances: $Q_b = 500$ ml/min, $Q_f = 0$ ml/min; UF coefficient: human blood, Hct 32 %, total protein 6 %, T = 37°C; Sieving coefficients: $Q_b = 300$ ml/min, $Q_f = 60$ ml/min)

Subject to modifications

Technical Data

Diacap® α Polysulfone low flux dialysers

In vitro performance	LO PS 10	LO PS 12	LO PS 15	LO PS 18	LO PS 20
Ultrafiltration coefficient (ml/h/mmHg)	6.8	7.9	9.8	12.3	13.7
Clearances: $Q_b = 200$ ml/min					
Urea	170	183	189	192	194
Creatinine	157	166	173	180	183
Phosphate	126	139	146	157	164
Vitamin B ₁₂	68	77	83	100	110
Clearances: $Q_b = 300$ ml/min					
Urea	217	233	246	253	258
Creatinine	181	200	213	225	234
Phosphate	147	162	172	188	198
Vitamin B ₁₂	73	82	91	112	125
Clearances: $Q_b = 400$ ml/min					
Urea	242	261	285	291	302
Creatinine	198	220	239	256	264
Phosphate	159	175	190	207	220
Vitamin B ₁₂	75	86	95	123	136
Surface (m ²)	1.0	1.2	1.5	1.8	2.0
Wall thickness/Internal diameter (μ m)	40/200				
Priming volume (ml) bloodside	58	68	90	110	121
Membrane material	α Polysulfone				
Housing material	Polycarbonate				
Potting compound	Polyurethane				
Sterilisation	Gamma				
Units per box	20				
Art. No.	7203525	7203533	7203541	7203550	7203568

In vitro performance and physical data comply with EN 1283

(Clearances: $Q_b = 500$ ml/min, $Q_f = 0$ ml/min; UF coefficient: human blood, Hct 32 %, total protein 6 %, T= 37°C)

Subject to modifications

2. Haemodialysis bloodline systems

2.1 A/V-Systems

Under the product group name "A/V Systems" we offer A/V sets and accessory parts such as infusion and tubing systems, connectors and adapters for all conventional dialysis machines.

B. Braun has integrated its bloodline system sets for Dialog, Dialog Advanced and Dialog+ into a state-of-the-art dialysis system where machine and accessories are perfectly coordinated and offer to the patients an ideal extracorporeal treatment.

In addition to the A/V sets for double-needle therapy, B. Braun also supplies systems for standard single-needle dialysis and its own in-house developed single-needle cross-over method for highly efficient single-needle dialysis.

- Shelf life: 36 months

Product benefits of A/V sets:

Handling

- Colour coded components
- On-off clamps
- Easy handling

Quality

- Manufactured with many years of experience

Safety

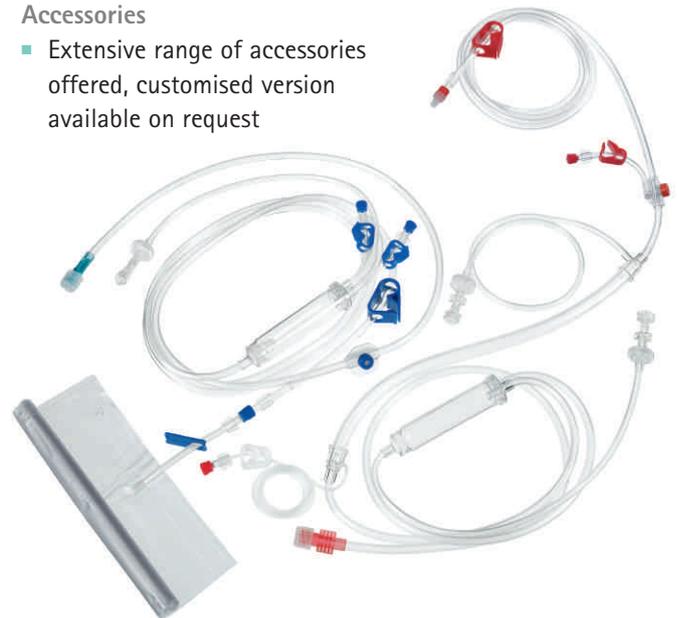
- Injection port with large finger protections
PBE measure

Biocompatibility

- DEHP free
- Latex free
- Sterilised by radiation

Accessories

- Extensive range of accessories offered, customised version available on request



A/V-Systems for Dialysis machines of B. Braun

Art. No.	Product name	Short description	Features
7036604	A/V-Set Dialog	Bloodline system for double-needle treatment, suitable for Dialog, Dialog Advanced, Dialog+	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ Post-dilution ■ Sterilisation by radiation
7210713	A/V-Set Dialog	Bloodline system for double-needle treatment, suitable for Dialog, Dialog Advanced, Dialog+	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ One-way spike ■ Post-dilution ■ Sterilisation by radiation
7210684	A/V-Set Dialog	Bloodline system for double-needle treatment, suitable for Dialog, Dialog Advanced, Dialog+	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ Double transducer protector ■ Colour coded patient clamp ■ 3L drain bag ■ Latex-free injection point ■ One-way spike ■ Post-dilution ■ Sterilisation by radiation

A/V-Systems for Dialysis machines of B. Braun

Art. No.	Product name	Short description	Features
7210588	A/V-Set Dialog	Bloodline system for double-needle treatment, suitable for Dialog, Dialog Advanced, Dialog*	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ DEHP-free blood tubes transportation ■ Colour coded patient clamp ■ 3L drain bag ■ Latex-free injection point ■ One-way spike ■ Pre/post-dilution ■ Sterilisation by radiation
7210697	A/V-Set Dialog	Bloodline system for double-needle treatment, suitable for Dialog, Dialog Advanced, Dialog*	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ One-way spike ■ Post-dilution ■ Infusion set ■ Recirculation connector ■ Sterilisation by radiation
7210785	A/V-Set Dialog	Bloodline system for double-needle treatment, suitable for Dialog, Dialog Advanced, Dialog*	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ Double transducer protector ■ 3L drain bag ■ Latex-free injection point ■ Colour coded patient clamp ■ Post-dilution ■ Sterilisation by radiation
7037279	A/V-Set HD Secura	Bloodline system for double-needle treatment, suitable for HD Secura	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber ■ 2L drain bag ■ Latex-free injection point ■ Sterilisation by radiation
7210645	A/V-SN Set Dialog	Bloodline system for single-needle valve treatment only, suitable for Dialog, Dialog Advanced, Dialog*	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ Sterilisation by radiation
7210611	A/V-SN CO Set Dialog	Bloodline system for single-needle cross-over treatment, suitable for Dialog, Dialog Advanced, Dialog*	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ Post-dilution ■ Sterilisation by radiation
7210698	A/V-SN CO Set Dialog	Bloodline system for single-needle cross-over treatment, suitable for Dialog, Dialog Advanced, Dialog*	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ One-way spike ■ Infusion set ■ Recirculation connector ■ Post-dilution ■ Sterilisation by radiation
7210714	A/V-SN CO Set Dialog	Bloodline system for single-needle cross-over treatment, suitable for Dialog, Dialog Advanced, Dialog*	<ul style="list-style-type: none"> ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ One-way spike ■ Post-dilution ■ Sterilisation by radiation

A/V-Systems for Dialysis machines

Art. No.	Product name	Short description	Features
A/V-Systems for Dialysis machines of Fresenius Medical Care			
721061210	A/V-Set 2008/4008	Bloodline system for double-needle treatment, suitable for Fresenius 2008/4008	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ Post-dilution ■ Sterilisation by radiation
7039611	A/V-Set 2008/4008	Bloodline system for double-needle treatment, suitable for Fresenius 2008/4008	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber ■ Color coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ 30 mm drip chamber diameter ■ Post-dilution ■ Sterilisation by radiation
721061240	A/V-SN Set 2008/4008	Bloodline system for single-needle-treatment, suitable for Fresenius 2008/4008	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber ■ Arterial line with double pump ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ Post-dilution ■ Sterilisation by radiation
A/V-Systems for Dialysis machines of Gambro			
721061200	A/V-Set AK 100-200	Bloodline system for double-needle haemodialysis treatment, suitable for Gambro AK 100-200	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ Post-dilution ■ Sterilisation by radiation
721061230	A/V-SN Set AK 100-200	Bloodline system for single-needle treatment, suitable for Gambro AK 100-200	<ul style="list-style-type: none"> ■ Big Arterial and Venous exp. Chambers ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ Post-dilution ■ Sterilisation by radiation
A/V-Systems for Dialysis machines of Nikkiso			
721061260	A/V-Set DBB 03-05	Bloodline system for double-needle treatment, suitable for Nikkiso DBB 03-05	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ Arterial pre-pump chamber ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ Post-dilution ■ Sterilisation by radiation
721061270	A/V-SN Set DBB 03-05	Bloodline system for single-needle treatment, suitable for Nikkiso DBB 03-05	<ul style="list-style-type: none"> ■ Arterial pre-filter chamber + PBE port ■ Arterial pre-pump chamber ■ Colour coded patient clamp ■ Latex-free injection point ■ Sterilisation by radiation
A/V-Systems for Dialysis machines of Baxter			
7039533	A/V-Set Microclav	Bloodline system for double-needle treatment, suitable for Baxter Microclav	<ul style="list-style-type: none"> ■ Arterial pre-pump chamber ■ Arterial pre filter chamber ■ 2L drain bag ■ Latex-free injection point ■ Post-dilution ■ Sterilisation by radiation
7210861	A/V-Set Althin	Bloodline system for double-needle treatment, suitable for Baxter Althin	<ul style="list-style-type: none"> ■ Arterial pre-pump chamber ■ One-way spike ■ 3L drain bag ■ Latex-free injection point ■ Post-dilution ■ Sterilisation by radiation
Universal A/V-Systems			
7210892	Universal A/V-Set	Bloodline system compatible to Dialog, Dialog Advanced, Dialog+, FMC 4008, Gambro AK, Baxter Microclav, Althin	<ul style="list-style-type: none"> ■ One-way spike ■ Colour coded patient clamp ■ 2L drain bag ■ Latex-free injection point ■ Sterilisation by radiation

Accessories for A/V-Systems

Art. No.	Product name	Short description	Features
7210834	Substitution line	Reinfusion line, suitable for Dialog, Dialog Advanced, Dialog*, used to transfer sterile fluids with appropriate composition from bag to patient; connection to bag through spikes or male luer	<ul style="list-style-type: none"> ■ 3 one-way spikes ■ 3 male Luer-Locks ■ Sterilisation by radiation
7020250	Substitution line	Reinfusion line, suitable for Dialog, Dialog Advanced, Dialog*, used to transfer sterile fluids with appropriate composition from bag to patient; connection to bag through special Dialoc connectors	<ul style="list-style-type: none"> ■ 2 Dialoc connectors ■ Sterilisation by EO
721055A	HDF-online tubing set	Reinfusion line, suitable for Dialog, Dialog Advanced, Dialog*, used to transfer treated dialysate fluid from machine to patient	<ul style="list-style-type: none"> ■ 1 screwed non-return valve ■ 1 male luer connector ■ Sterilisation by radiation
7210558	HDF-online tubing set	Reinfusion line, suitable for Dialog, Dialog Advanced, Dialog*, used to transfer treated dialysate fluid from machine to patient	<ul style="list-style-type: none"> ■ 1 glued non-return valve ■ 1 male luer connector ■ Sterilisation by radiation
7020246	Diafusine line	Infusion line for transferring saline or drugs, from bag to patient; connection to bag through male luer	<ul style="list-style-type: none"> ■ 2 male Luer-Lock connectors ■ dripping chamber ■ roller clamp ■ Sterilisation by EO
7210670	Removable transducer protector	Transducer to be added to the line when necessary or used to replace of transducers wet by blood during the haemodialysis treatment	<ul style="list-style-type: none"> ■ Sterilisation by EO
7210224	Transducer protector	Transducer to be added to the line when necessary or used to replace of transducers wet by blood during the haemodialysis treatment	<ul style="list-style-type: none"> ■ Sterilisation by EO
7020457	2 Litres drain bag	Bag used to collect the priming fluid	<ul style="list-style-type: none"> ■ Sterilisation by EO
7210559	Pre-dilution adapter	Adapter that, once connected to the arterial dialyser connector, allows pre-dilution therapy to be performed	<ul style="list-style-type: none"> ■ Male/female dialyser connector ■ Sterilisation by EO
7210868	Single-needle adapter	Used to connect arterial and venous haemodialysis bloodlines to fistula needle, for single-needle haemodialysis	<ul style="list-style-type: none"> ■ 2 Luer-Lock female connectors ■ 1 Luer-Lock male connector ■ Sterilisation by EO
7210833	Recirculation connector	Double female luer connector, used for priming fluid recirculation or, if necessary, for blood recirculation (limited period of time)	<ul style="list-style-type: none"> ■ Sterilisation by radiation
7210728	Extension line	Arterial and Venous extension line 200 mm	<ul style="list-style-type: none"> ■ 2 Luer-Lock female connectors ■ 1 Luer-Lock male connector ■ Sterilisation by EO
7210729	Extension line	Arterial and Venous extension line 400 mm	<ul style="list-style-type: none"> ■ 2 Luer-Lock female connectors ■ 1 Luer-Lock male connector ■ Sterilisation by EO
7210151	One way spike	Spike used to pierce through the solution bag caps, in priming or restitution phase	<ul style="list-style-type: none"> ■ Sterilisation by EO
7210971	Blood restitution adapter	used to avoid cross contamination of the machine during the restitution of the blood at the end of the HD therapy, using Dialog* On Line machine.	<ul style="list-style-type: none"> ■ 1 Male Luer Lock ■ 1 no return valve ■ 1 Female Luer Lock

3. The UltraPureFluid system (UPF) by B. Braun

Ultrapure fluid

Because of their illness, not only are dialysis patients exposed to greater risk factors, they are also exposed to nearly 20,000 liters of dialysis fluid every year – with only a semipermeable membrane separating their blood from the dialysis fluid. Fluid purity is crucial to treatment quality. Even minor bacterial impurities can lead to degradation products and toxins, such as endotoxins. Depending on their size, these toxins are capable of passing through dialysis membranes and triggering reactions in the patient's blood. It has been shown that these situations can lead to serious and costly complications.

B. Braun offers a closed system for manufacturing ultrapure dialysis fluid and infusion solutions for Online therapy that consists of the following components:

- Dialog Advanced/Dialog+ haemodialysis machine
- Diacap® Ultra dialysis fluid filter/Online filter
- Disinfection, cleaning + decalcification agent: Citric Acid 50 %
- Option: disinfection + cleaning agent: Tiutol® KF

What does ultrapure dialysis fluid mean?

- Maximum reduction in microbiological impurities in the dialysis water
- Germ-free fluid (sterile according to Ph.Eur., only if sterility is monitored by batch)
- Endotoxin levels < 0.03 IU/ml

Clinical benefits

- Marked reduction in chronic inflammatory processes
- Lower rate of dialysis-induced amyloidosis
- Favorable in promoting patient's general nutritional state
- Reduction in oxidative stress
- Reduction in cardiovascular morbidity rates
- Great savings potential through preventive protection against complications and interrelated consequential costs

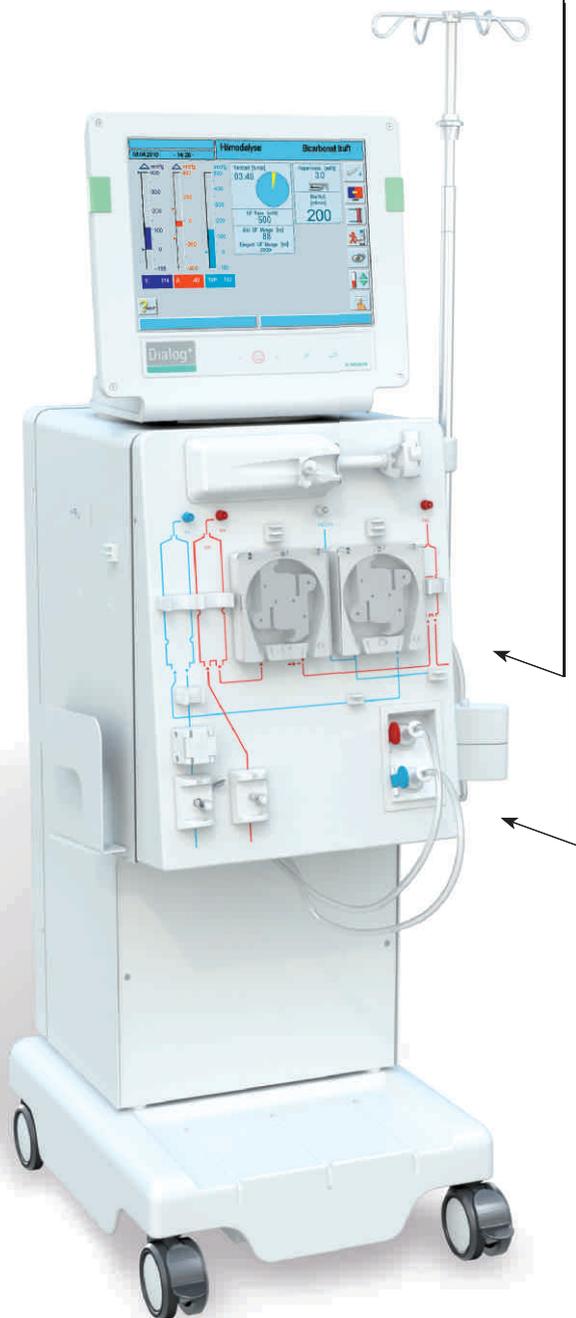


Benefits of the UltraPureFluid system (UPF)

- Significantly improves dialysis treatment quality
- Ultra-high microbiological system performance
- Easy handling
- Gentle, safe and reliable disinfection, decalcification and cleaning
- Automatic test routines maximise safety of overall system

What this means for chronic haemodialysis patients

- Significant improvement in patient's well-being
- Demonstrably longer life expectancy in long-term dialysis patients
- Delayed loss of residual renal function



4. Dialysis fluid filter and Online filter

4.1 Diacap® Ultra

Diacap® Ultra is a gamma-sterilised, hollow-fibre membrane filter made of high-grade Polysulfone fibre. It is intended for use as a bacterial and pyrogen filter for manufacturing ultrapure dialysis fluid in Dialog, Dialog Advanced and Dialog+ dialysis machines. The filter is a central component of B. Braun's "UltraPureFluid" system (UPF) and can also be used for the preparation of volume replacement solution for HF/HDF Online therapy with the Dialog machine.

- Shelf life: 36 months



Product benefits of Diacap® Ultra:

- Highly adsorptive Polysulfone membrane: bacteria and endotoxin retention rating > 10⁶ IU/ml
- Above-average filter service life: 150 treatments or approx. 900 hours of operation
- High mechanical stability of Polysulfone fibres
- Simple and efficient preparation
- Long service life means high cost-effectiveness

Benefits of ultrapure dialysis fluid:

- Significantly improves dialysis treatment quality
- Markedly reduces chronic inflammatory processes
- Beneficial impact on dialysis patients' nutritional condition and quality of life
- Positive effect on residual renal function in patients recently dependent on dialysis

Art. No.	Product name	Packaging unit
7107365	Diacap® Ultra DF-Online Filter AP	1 unit 6 units/box
7107366	Diacap® Ultra DF-Online Filter	1 unit 6 units/box

5. Fistula needles

5.1 Diacan®

The dialysis system from B. Braun offers components that are perfectly adapted one to another, for effective extracorporeal treatment.

The safe and gentle vascular access is an important criterion for users and patients in efficient and successful dialysis treatment. Using the optimum canulation procedure, the Diacan® and Diacan® S dialysis fistula needles from B. Braun cause, due to their precise 2-phase facet profile, minimal trauma to the vascular access.

The extremely thin-walled, siliconised needle secures a laminar flow and ensures a high blood flow rate. The siliconisation of the fistula needles reduces blood coagulation; the tube material is highly flexible and latex-free. With the Diacan® and Diacan® S dialysis fistula needles canulation is safe for patients and gentle on the vessels, as well as user-friendly for your nursing staff.

B. Braun – we offer you expertise, safety and process orientation.

Benefits of Diacan®:

- Tissue-sparing and less painful canulation due to thin-walled needles and 2-phase facet profile
- Safe handling due to rotatable wings with clip function
- High laminar blood flow and reduction of haemolysis due to siliconised lumen
- Latex-free tube material
- Safe connection to the tube system due to optimised luer-lock connection



Diacan®

arterial	Art. No.		Wing colour	Diameter	Needle length (mm)	Tube length (mm)
	venous					
7023253		7023353	■	15G (1.8 mm)	20	150
7023254		7023354	■	15G (1.8 mm)	20	300
7023255		7023355	■	15G (1.8 mm)	25	150
7023256		7023356	■	15G (1.8 mm)	25	300
7023261		7023361	■	16G (1.6 mm)	15	150
7023263		7023363	■	16G (1.6 mm)	20	150
7023264		7023364	■	16G (1.6 mm)	20	300
7023265		7023365	■	16G (1.6 mm)	25	150
7023266		7023366	■	16G (1.6 mm)	25	300
7023273		7023373	■	17G (1.5 mm)	20	150
7023274		7023374	■	17G (1.5 mm)	20	300
7023275		7023375	■	17G (1.5 mm)	25	150
7023276		7023376	■	17G (1.5 mm)	25	300

- Shelf life: 36 months

All articles are gamma-sterilised.

5.2 Diacan® Twinset

The Diacan® Twinset product portfolio offers the right fistula needle for your therapy: arterial and venous fistula needle in one user-friendly packaging.

Impressive and convincing advantages leaving you more time on patients.

The tried and tested Diacan® in the clever dual pack enables simple handling for the nursing staff by saving on work steps, whilst at the same time reducing the packaging material.

The Diacan® Twinset therefore allows environmentally friendly and sustainable resource management.

The minimisation of the packaging units allows an efficient use of the available storage space.

A further advantage is the simplification of the ordering process: When using the Twinset, only one article needs to be ordered.

Comfort and efficiency, leaving you and your nursing staff space for what's important – the patient.

Benefits of Diacan® Twinset:

- Shortening of the dialysis preparation time
- Reduction in packaging material
- Reduction of storage space and stock levels
- Simplification of the ordering process



Diacan® Twin Set

Art. No.	Wing colour	Diameter	Needle length (mm)	Tube length (mm)
7023643	□	14G (2.0 mm)	20	150
7023653	■	15G (1.8 mm)	20	150
7023654	■	15G (1.8 mm)	20	300
7023655	■	15G (1.8 mm)	25	150
7023656	■	15G (1.8 mm)	25	300
7023661	■	16G (1.6 mm)	15	150
7023663	■	16G (1.6 mm)	20	150
7023664	■	16G (1.6 mm)	20	300
7023665	■	16G (1.6 mm)	25	150
7023666	■	16G (1.6 mm)	25	300
7023671	■	17G (1.5 mm)	15	150
7023673	■	17G (1.5 mm)	20	150
7023674	■	17G (1.5 mm)	20	300
7023675	■	17G (1.5 mm)	25	150
7023676	■	17G (1.5 mm)	25	300
7023684	■	18G (1.3 mm)	20	300

- Shelf life: 36 months

All articles are gamma-sterilised.



Remove the fixing material from the wings



To remove the needle, push the housing carefully in direction towards the puncture site.



Place the index finger in the curved end of the fingershield anchor as shown in the illustration. The middle finger remains on the puncture site.



Remove the fistula needle, allowing the needle to engage into the housing. A readily audible "click" signals that the safety mechanism has been triggered.

5.3 Diacan® S

The integrated safety mechanism of the Diacan® S offers your nursing staff a preventive and effective protection against needlestick injuries and infection risks.

After completion of the dialysis treatment and during removal of the needle, the safety device accommodates the needle in a housing. The needle is completely drawn into the integrated safety device and remains securely in the housing. Risks to users and all those involved in the chain of disposal can thus be avoided.

The effectiveness of the safety device of the Diacan® S has been successfully proven in an American comparison study¹.

Benefits of Diacan® S:

- Integrated protective mechanism
- The protective mechanism is activated as the needle is pulled out, in one movement
- Effective protection against needlestick injuries, with acoustic safety check
- The safety dialysis canula, the effectiveness of which has been demonstrated in a clinical trial¹



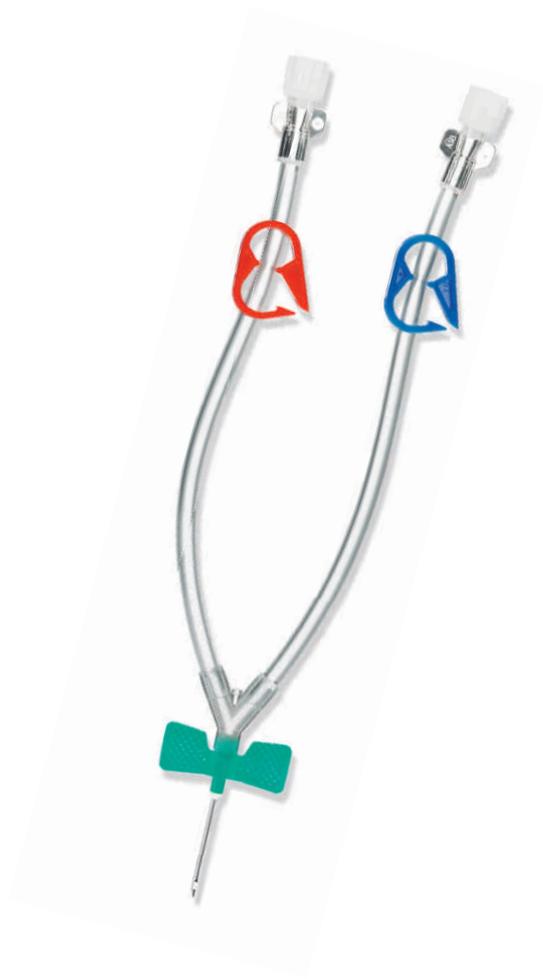
¹ Mc Leary J et al. Guarded fistula needle reduces needle stick injuries in hemodialysis. Nephrology News Et Issues, May 2002, 65-68

Diacan® S

arterial	Art. No.		Wing colour	Diameter	Needle length (mm)	Tube length (mm)
		venous				
7023453		7023553	■	15G (1.8 mm)	20	150
7023454		7023554	■	15G (1.8 mm)	20	300
7023455		7023555	■	15G (1.8 mm)	25	150
7023456		7023556	■	15G (1.8 mm)	25	300
7023461		7023561	■	16G (1.6 mm)	15	150
7023462		7023562	■	16G (1.6 mm)	15	300
7023463		7023563	■	16G (1.6 mm)	20	150
7023464		7023564	■	16G (1.6 mm)	20	300
7023465		7023565	■	16G (1.6 mm)	25	150
7023466		7023566	■	16G (1.6 mm)	25	300
7023471		7023571	■	17G (1.5 mm)	15	150
7023472		7023572	■	17G (1.5 mm)	15	300
7023473		7023573	■	17G (1.5 mm)	20	150
7023474		7023574	■	17G (1.5 mm)	20	300
7023475		7023575	■	17G (1.5 mm)	25	150
7023476		7023576	■	17G (1.5 mm)	25	300

- Shelf life: 36 months

All articles are gamma-sterilised.



5.4 Singucan®

B. Braun also offers fistula needles in a single-needle version called Singucan® providing the same advantages as Diacan®.

Benefits of Singucan®:

- Tissue-sparing and less painful canulation due to thin-walled needles and 2-phase facet profile
- Safe handling due to rotatable wings with clip function
- High laminar blood flow and reduction of haemolysis due to siliconised lumen
- Latex-free tube material
- Safe connection to the tube system due to optimised luer-lock connection

Singucan®

Art. No.	Wing colour	Diameter	Needle length (mm)	Tube length (mm)
7023753	■	15G (1.8 mm)	20	150
7023755	■	15G (1.8 mm)	25	150
7023763	■	16G (1.6 mm)	20	150
7023765	■	16G (1.6 mm)	25	150
7023773	■	17G (1.5 mm)	20	150

- Shelf life: 36 months

All articles are gamma-sterilised.

6. Dialysis catheters



6.1 Haemocat® Signo

The Haemocat® Signo is a temporary double-lumen catheter for extracorporeal blood treatments* and specifically designed for use in acute dialysis. The catheter is positioned here by the established Seldinger technique in the jugular, subclavian or femoral vein.

The outstanding advantage of Haemocat® Signo is the quick and simple control of the catheter's position at the site of insertion using the arterial ECG lead. This simultaneous and efficient catheter positioning technique eliminates the need for any additional X-ray monitoring or any awkward repositioning of the patient.

Benefits of Haemocat® Signo:

- Positioning, control and correction of the catheter all in one step thanks to arterial ECG lead
- Patient-friendly as there is no re-catheterisation due to misplacement
- High cost-effectiveness thanks to low personnel and organisational costs
- Safe and easy catheter insertion thanks to kink-proof guide wire with J-tip
- Closed system for vein puncture using a valve canula
- Dispenser for one-handed manipulation of the guide wire
- DEHP-free product
- The Haemocat® Signo is available in the convenient Seldinger Operations set

Temporary Double-Lumen Catheter Sets including accessories

Art. No.	Product name	Catheter				Guide wire		Packaging unit
		ø (mm)	(F)	Length (cm)	Lumen (G)	ø (mm)	Length (cm)	
Catheter sets:								
7029601	Haemocat® Signo V 1215	4	12	15	11/11	0.89	50	10 pcs./box
7029653	Haemocat® Signo V 1217	4	12	17	11/11	0.89	50	10 pcs./box
7029685	Haemocat® Signo V 1220	4	12	20	11/11	0.89	50	10 pcs./box
Catheter accessories:								
4150228	Certodyn® Universal adapter							

- Shelf life: 60 months

* HD, HF, HDF, plasmapheresis, haemoperfusion.

The Haemocat® Signo catheter-set, consisting of:

- Double-lumen catheter
- Valve cannula 18G (1.3 mm)
- Kink-proof guide wire with J-tip
- Dilator 12 Fr
- Scalpel
- IN stopper
- Connecting cable for intra-atrial ECG lead
- Syringe: Omnifix® 5 ml



Technical Data

Product name		Minimal flow rate* (ml/min)	Priming volume (ml)
Haemocat® Signo V 1215	distal	210	1.2
	proximal	210	1.2
Haemocat® Signo V 1217	distal	200	1.3
	proximal	200	1.3
Haemocat® Signo V 1220	distal	190	1.4
	proximal	190	1.4

*In vitro specifications comply with ISO 10555

Information concerning available PD-Catheters upon request.

7. Haemofiltration solutions

7.1 Duosol[®], bicarbonate-buffered solution for haemofiltration

The Duosol[®] solution for haemofiltration is optimally adapted to the treatment of patients with acute renal failure.

- Physiological buffer
- Optimal correction of metabolic acidosis
- Directly available buffer
- Shelf life: 24 months

The double-chamber bag

The 5-litre double-chamber bag saves time and energy:

- Intelligent product design
- Non-PVC bag material
- Less packaging means less waste



Composition of unmixed solutions

Pharmaceutically active ingredients in g/l	Duosol [®] without potassium		Duosol [®] with 2 mmol/l potassium		Duosol [®] with 4 mmol/l potassium	
	Large chamber 4445 ml	Small chamber 555 ml	Large chamber 4445 ml	Small chamber 555 ml	Large chamber 4445 ml	Small chamber 555 ml
Sodium chloride	6.18	4.21	6.18	4.21	6.18	4.21
Potassium chloride	-	-	-	1.34	-	2.68
Calcium chloride dihydrate	-	1.98	-	1.98	-	1.98
Magnesium chloride hexahydrate	-	0.91	-	0.91	-	0.91
Glucose monohydrate	-	9.90	-	9.90	-	9.90
Sodium hydrogen carbonate	3.59	-	3.59	-	3.59	-
Other ingredients	Electrolyte solution (small chamber): hydrochloric acid 25 % for adjusting pH, water for injection Bicarbonate solution (large chamber): carbon dioxide for adjusting pH, water for injection					

Composition of mixed solutions

Art. No.	Product name	Na ⁺ mmol/l	K ⁺ mmol/l	Ca ⁺⁺ mmol/l	Mg ⁺⁺ mmol/l	Cl ⁻ mmol/l	HCO ₃ ⁻ mmol/l	Glucose mmol/l	Theoretical osmolarity
1)	Duosol [®] without potassium	140	0	1.5	0.5	109	35	5.5	292
1)	Duosol [®] with 2 mmol/l potassium	140	2	1.5	0.5	111	35	5.5	296
1)	Duosol [®] with 4 mmol/l potassium	140	4	1.5	0.5	113	35	5.5	300

Art. No.	Product name	Packaging unit	Units per pallet
1)	Duosol [®] without potassium	2 bags/box	100 bags
1)	Duosol [®] with 2 mmol/l potassium	2 bags/box	100 bags
1)	Duosol [®] with 4 mmol/l potassium	2 bags/box	100 bags

1) Country-specific marketing authorisation and product design. Further information on request.

8. Infusion and irrigation solutions

8.1 Isotonic sodium chloride solution in Perfuflac® N bag

The Perfuflac®N bag contains no PVC or plasticizers. It is made of polyolefins and therefore benefits from their special elastic properties, so plasticizers are no longer needed.

This makes the dialysis units more environmentally friendly and protects patients from exposure to avoidable hazards caused by plasticizers.

- Shelf-life: 24 months

Benefits of Perfuflac® N bag:

- 2 Luer-Lock ports
- PVC-free
- Can be used for infusion (medicines)
- User-friendly connection tubing length
- Additional protection from the polyethylene outer bag



PVC-free

Isotonic sodium chloride solution in Perfuflac® N bag, supplied in a box

Art. No.	Product name	Packaging unit	Units per pallet
1)	Isotonic sodium chloride solution in Perfuflac® N bag	10 x 250 ml	1170 bags
1)	Isotonic sodium chloride solution in Perfuflac® N bag	10 x 500 ml	780 bags
1)	Isotonic sodium chloride solution in Perfuflac® N bag	10 x 1000 ml	500 bags
1)	Isotonic sodium chloride solution in Perfuflac® N bag	6 x 1500 ml	300 bags
1)	Isotonic sodium chloride solution in Perfuflac® N bag	4 x 2000 ml	224 bags

1) Country-specific. Note: Articles with 2 Luer-Lock also available in PVC bags; further information upon request.

9. Dialysis concentrates



Patient-optimised therapy

The vast range of liquid acidic and alkaline bicarbonate haemodialysis concentrates in various formulations offered by B. Braun allow the bicarbonate-buffered haemodialysis treatment to be optimally tailored to the individual needs of each patient. Sodium hydrogen carbonate powder supplied in cartridges and bags and prepackaged kits for the self-preparation of acidic haemodialysis concentrates complete the product range.

Application-oriented container systems

Our container systems for concentrates, which include a wide range of canisters, self-preparation kits and cartridges, meet the complex demands of modern dialysis units. They are model examples of B. Braun's commitment to manufacturing ecologically friendly products:

- Cartridges instead of conventional canisters
- Self-preparation kits reduce logistics and eliminate the need to transport canisters around the unit

9.1 Acidic bicarbonate haemodialysis concentrates 1+34, 1+44

To manufacture the ready-to-use dialysis fluid, the acidic bicarbonate haemodialysis concentrates are mixed by the dialysis machine. The standard dilution ratio is 1+34 or 1+44. The concentrates are mixed with alkaline bicarbonate haemodialysis concentrate 8.4 % and water of a suitable grade (water for haemodialysis).

Benefits of Acidic bicarbonate concentrates at a 1+44 mixing ratio:

- Lower concentrate volume required per treatment
- Less storage space
- Less need for replacement containers

			Packaging unit
Sodium	135 - 140	mmol/l	Canisters: 6, 10 l
Potassium	0 - 4	mmol/l	
Calcium	0 - 1,75	mmol/l	
Magnesium	0.5 - 1	mmol/l	
Chloride	100 - 116	mmol/l	
Bicarbonate	32 - 36	mmol/l	
Acetate	2 - 3	mmol/l	
Glucose	0 - 2	g/l	

Broad spectrum for individualised treatments

Packaging unit	Canisters per pallet
6-l canisters	90
10-l canisters	60

- Shelf life: 36 months

Acidic concentrates 1+34

Standard product range, additional packaging sizes and formulations on request

		Composition of the ready-to-use dialysis fluid: 1 litre acidic concentrate SW xxx A and 32.775 litre water for haemodialysis + 1.225 litre bicarbonate concentrate 8.4 % yield a ready-to-use haemodialysis solution with the following electrolyte concentrations:									
Potassium 0 mmol/l – 1 mmol/l											
Art. No. 6 l	Art. No. 10 l	Conc. name	Na ⁺ mmol/l	K ⁺ mmol/l	Ca ⁺⁺ mmol/l	Mg ⁺⁺ mmol/l	Cl ⁻ mmol/l	Acetate ⁻ mmol/l	HCO ₃ ⁻ mmol/l	Glc g/l	Osmol. mOsm/l
	124	SW 241 A	140	0	1.5	0.5	109	2.5	32.5	1	294
	117	SW 284 A	138	1	1	0.5	107	3	32	1	290
7775	7575	SW 375 A	138	1	1.25	0.5	107.5	3	32	1	290
7776	7576	SW 376 A	138	1	1.5	0.5	108	3	32	1	292
8473	3203	SW 163 A	138	1	1.75	0.5	108.5	3	32	1	293

Potassium 2 mmol/l											
Art. No. 6 l	Art. No. 10 l	Conc. name	Na ⁺ mmol/l	K ⁺ mmol/l	Ca ⁺⁺ mmol/l	Mg ⁺⁺ mmol/l	Cl ⁻ mmol/l	Acetate ⁻ mmol/l	HCO ₃ ⁻ mmol/l	Glc g/l	Osmol. mOsm/l
7299		SW 415 A	138	2	0	0.5	106	3	32	1	288
7777	136	SW 262 A	138	2	1	0.5	108	3	32	1	292
3251	3273	SW 196 A	138	2	1.25	0.5	108.5	3	32	0	287
7778	7578	SW 127 A	138	2	1.25	0.5	108.5	3	32	1	293
8475	335	SW 166 A	138	2	1.25	0.75	109	3	32	1	294
	349	SW 93 A	140	2	1.5	0.5	111	2	33	0	292
7780	7580	SW 380 A	138	2	1.5	0.5	109	3	32	1	294
7379	7597	SW 397 A	138	2	1.5	1	110	3	32	1	296
	147	SW 102 A	140	2	1.5	0.5	111	2	33	1	298
3424	223	SW 230 A	140	2	1.5	0.75	111.5	3	32	2	304
17	149	SW 95 A	138	2	1.75	0.5	109.5	3	32	0	289
7724	7524	SW 139 A	138	2	1.75	0.5	109.5	3	32	1	295

Potassium 3 mmol/l – 4 mmol/l											
Art. No. 6 l	Art. No. 10 l	Conc. name	Na ⁺ mmol/l	K ⁺ mmol/l	Ca ⁺⁺ mmol/l	Mg ⁺⁺ mmol/l	Cl ⁻ mmol/l	Acetate ⁻ mmol/l	HCO ₃ ⁻ mmol/l	Glc g/l	Osmol. mOsm/l
7782	116	SW 285 A	138	3	1.25	0.5	109.5	3	32	1	295
7435	3227	SW 184 A	138	3	1.25	0.75	110	3	32	1	296
7781	7581	SW 381 A	138	3	1.5	0.5	110	3	32	1	296
	253	SW 154 A	140	3	1.5	0.75	112.5	2.5	32.5	1	301
	226	SW 231 A	140	3	1.5	0.75	112.5	3	32	2	306
133	137	SW 178 A	138	3	1.75	0.5	110.5	3	32	1	297
7975	118	SW 286 A	138	4	1.25	0.5	110.5	3	32	1	297
7793	7593	SW 393 A	138	4	1.5	0.5	111	3	32	1	298
8481	131	SW 195 A	138	4	1.75	0.5	111	3	32	1	299

Acidic concentrates 1+44

Standard product range, additional packaging sizes and formulations on request

Composition of the ready-to-use dialysis fluid: 1 litre acidic concentrate SW xxx A and 42.245 litre water for haemodialysis + 1.755 litre bicarbonate concentrate 8.4 % yield a ready-to-use haemodialysis solution with the following electrolyte concentrations:

Potassium 0 mmol/l – 1 mmol/l

Art. No. 6 l	Art. No. 10 l	Conc. name	Na ⁺ mmol/l	K ⁺ mmol/l	Ca ⁺⁺ mmol/l	Mg ⁺⁺ mmol/l	Cl ⁻ mmol/l	Acetate ⁻ mmol/l	HCO ₃ ⁻ mmol/l	Glc g/l	Osmol. mOsm/l
	7530	SW 443 A	139	0	1.5	0.5	104	3	36	1	292
7971		SW 441 A	139	1	1.25	0.5	104	3	36	1	293
	7532	SW 444 A	139	1	1.5	0.5	105	3	36	1	294
	7969	SW 418 A	139	1	1.75	0.5	114	3	36	1	294

Potassium 2 mmol/l

Art. No. 6 l	Art. No. 10 l	Conc. name	Na ⁺ mmol/l	K ⁺ mmol/l	Ca ⁺⁺ mmol/l	Mg ⁺⁺ mmol/l	Cl ⁻ mmol/l	Acetate ⁻ mmol/l	HCO ₃ ⁻ mmol/l	Glc g/l	Osmol. mOsm/l
6809		SW 435 A	139	2	1	0.5	105	3	36	1	294
7715		SW 442 A	139	2	1.25	0.5	105.5	3	36	0	289
7733	7534	SW 445 A	139	2	1.25	0.5	105.5	3	36	1	295
6807	7936	SW 417 A	139	2	1.25	0.75	106	3	36	1	296
7725	7535	SW 446 A	139	2	1.5	0.5	106	3	36	1	296
6805	7985	SW 423 A	139	2	1.5	0.75	106.5	3	36	1	297
	3343	SW 247 A	139	2	1.5	0.75	106.5	3	36	1.5	300
7729	7537	SW 219 A	139	2	1.75	0.5	106.5	3	36	1	297
6806	7988	SW 425 A	139	2	1.75	0.75	107	3	36	1	298

Potassium 3 mmol/l – 4 mmol/l

Art. No. 6 l	Art. No. 10 l	Conc. name	Na ⁺ mmol/l	K ⁺ mmol/l	Ca ⁺⁺ mmol/l	Mg ⁺⁺ mmol/l	Cl ⁻ mmol/l	Acetate ⁻ mmol/l	HCO ₃ ⁻ mmol/l	Glc g/l	Osmol. mOsm/l
7734	7538	SW 448 A	139	3	1.25	0.5	106.5	3	36	1	297
7974		SW 275 A	142	3	1.25	0.75	110	3	36	1	304
7726	7541	SW 449 A	139	3	1.5	0.5	107	3	36	1	298
6827	3342	SW 248 A	139	3	1.5	0.75	107.5	3	36	1.5	302
	7542	SW 450 A	139	3	1.75	0.5	107.5	3	36	1	299
7732	368	SW 436 A	139	4	1.25	0.5	107.5	3	36	1	299
7727	7543	SW 451 A	139	4	1.5	0.5	108	3	36	1	300
6808	6828	SW 434 A	139	4	1.5	0.75	108.5	3	36	1	301
7796		SW 439 A	139	4	1.75	0.5	108.5	3	36	1	301

9.2 Renosol set

Modular product set for the self-preparation of acidic concentrates (1+34) in the central concentrate supply

For haemodialysis, the components of the Renosol sets must be dissolved in water using a suitable mixing system. The Renosol set components are not suitable for direct use in dialysis machines. Please observe the instructions for use.



One set produces 100 l acidic bicarbonate haemodialysis concentrate, 1+34.

- Renosol-EI: 1 canister with liquid electrolyte concentrate (approx. 10 kg)
- Renosol-NaCl: 2 bags with sodium chloride, each in a box (approx. 10.7 kg/bag)
- Renosol-Glc: 0, 1 or 2 bags with glucose, depending on the formulation ordered (approx. 3.8 kg/bag (1 g Glc./l))

Benefits of Renosol set:

- Components dissolve more quickly and conveniently because the electrolytes are present in dissolved form from the outset
- Quality complies with the European Pharmacopoeia
- System-inherent safety: fewer large-volume components, which means that nothing can be forgotten during concentrate manufacturing.
- 60 % volume-saving compare to storage of 1+34 concentrates

		Composition of the ready-to-use dialysis fluid: 1 litre acidic concentrate made of Renosol set and 32.775 litre water for haemodialysis + 1.225 litre bicarbonate concentrate 8.4 % yield a ready-to-use haemodialysis solution with the following electrolyte concentrations:								Litres of acidic concentrate (1+34)	Presentation: number of Renosol sets per pallet
Art. No.	Type	Na ⁺ mmol/l	K ⁺ mmol/l	Ca ⁺⁺ mmol/l	Mg ⁺⁺ mmol/l	Cl ⁻ mmol/l	HCO ₃ ⁻ mmol/l	Acetat ⁻ mmol/l	Glucose g/l		
5243	Renosol 10	140	2	1.25	0.75	111	32	3	0	100 L	18
5255	Renosol 14	140	2	1.25	0.75	111	32	3	1	100 L	18
5258	Renosol 16	140	2	1.5	0.5	111	32	3	1	100 L	18
5249	Renosol 11	140	2	1.5	0.75	111.5	32	3	0	100 L	18
5256	Renosol 15	140	2	1.5	0.75	111.5	32	3	1	100 L	18
5241	Renosol 04	140	2	1.75	0.75	112	32	3	0	100 L	18
5246	Renosol 09	140	2	1.75	0.75	112	32	3	1	100 L	18
5247	Renosol 05	140	2	1.75	0.75	112	32	3	2	100 L	18
5259	Renosol 17	140	3	1.5	0.5	112	32	3	1	100 L	18

- Shelf life: Renosol set = 24 months, Renosol-EI = 36 months

Additional formulations available on request.

9.3 Alkaline bicarbonate haemodialysis concentrate 8.4 %, liquid in canisters

Alkaline bicarbonate haemodialysis concentrate 8.4 % are mixed by the dialysis machine in the standard dilution ratio 1+34 or 1+44 with acidic bicarbonate haemodialysis concentrates and water of a suitable grade (water for haemodialysis) to manufacture the ready-to use dialysis fluid.

Benefit of alkaline bicarbonate haemodialysis concentrate 8.4 %:

- Many years of experience in manufacturing and logistics
- Proven containers for safe and hygienic error-free use
- Closed filling system
- Sterile filtration before filling



Art. No.	Product name	Packaging unit	Canisters per pallet
217	Alkaline bicarbonate haemodialysis concentrate 8.4 %	6 l canisters	90
259	Alkaline bicarbonate haemodialysis concentrate 8.4 %	8 l canisters	60
169	Alkaline bicarbonate haemodialysis concentrate 8.4 %	10 l canisters	60

- Shelf life: 12 months

9.4 Sodium hydrogen carbonate powder for haemodialysis, supplied in bags

For manufacturing alkaline bicarbonate haemodialysis concentrates for extracorporeal bicarbonate haemodialysis or bicarbonate haemodiafiltration. Alkaline bicarbonate haemodialysis concentrate may only be used in combination with an acidic bicarbonate haemodialysis concentrate diluted as prescribed.

- 8.4 kg for 100 L concentrate (8.4 %);
1000 ml of this concentrate contain:
1084.0 g sodium hydrogen carbonate,
equivalent to Na⁺ 1000 mmol and
HCO₃⁻ 1000 mmol



Benefits of Sodium hydrogen carbonate powder in bags:

- Easy-to-use logistics and concentrate manufacturing
- Less storage volume
- High product quality
- Sodium hydrogen carbonate powder complies with the European Pharmacopoeia monograph
- Shelf life: 36 months

Art. No.	Product name	Packaging unit	Units per pallet
470	Sodium hydrogen carbonate	3 x 8.4 kg/box	90

9.5 Sol-Cart B®

The Sol-Cart B® cartridge with sodium hydrogen carbonate powder for haemodialysis is a practical alternative to liquid alkaline bicarbonate haemodialysis concentrate 8.4 %.

- Cartridge housing of polypropylene
- One filter at the cartridge inlet and outlet port respectively
- Contents per cartridge: 650 g, 760 g or 1100 g, equiv. to 6.5 l, 7.6 l or 11.0 l bicarbonate concentrate 8.4 % dialysis time for 6 h, 7 h or 9 h at a dialysate flow rate of 500 ml/min

Benefit of Sol-Cart B®:

- Easy-to-use by minimal product weight
- High product quality
- Less storage volume
- Sodium hydrogen carbonate powder complies with the European Pharmacopoeia monograph
- Can be used in all conventional dialysis machines with appropriate cartridge holders
- Shelf life: 36 months



Art. No.	Product name	Packaging unit	Units per pallet
836	Sol-Cart B® 650 g	10 x 650 g	630
837	Sol-Cart B® 760 g	10 x 760 g	630
804	Sol-Cart B® 1100 g	8 x 1100 g	432

10. Disinfection

10.1 Citric Acid 50 %

Citric Acid 50 % is a liquid concentrate for the highly efficient citro-thermal disinfection, cleaning and decalcification of haemo-dialysis machines. The concentrate is used at 83°C in accordance with the machine manufacturer's instructions.

Unlike disinfecting agents that have strongly oxidising or aggressive acidic properties, Citric Acid 50 % with its highpowered disinfectant properties is very material compatible, user friendly and environmentally neutral.

Benefits of Citric Acid 50 %:

- Outstanding disinfectant and virucidal properties; bactericidal, fungicidal, tuberculocidal and virus-inactivating (including Parvovirus, HBV, HCV, HIV)
- The active ingredient is listed by the DGHM (German Society for Hygiene and Microbiology)
- Economical, since only low concentrations and quantities are needed
- Gentle on materials and highly effective at the same time
- Each application takes very little time
- No hazardous materials
- Safe to use and environmentally neutral

Art. No.	Product name	Packaging unit	Canisters per pallet
899	Citric Acid 50%	6-litre canisters	90
307	Citric Acid 50%	10-litre canisters	60

- Shelf life: 36 months



10.2 Tiutol® KF

Tiutol® KF is a fluid concentrate for highly efficient chemothermal disinfection and cleaning, based on sodium hypochlorite. Tiutol® KF has a proven bactericidal, tuberculocidal, fungicidal and virus-inactivating action. Prerequisite for use in haemodialysis machines are defined operating conditions. In combination with the Dialog dialysis machine with DF filter or Dialog Online, the use of Tiutol® KF is optional, according to instructions for use and labelling.

Benefits of Tiutol® KF:

- Excellent cleaning power, particularly against biofilms
- Very good disinfectant and virucidal properties; bactericidal, fungicidal, tuberculocidal and virus-inactivating (including HBV, HCV, HIV)

Complete product range for dialysis

B. Braun has developed, produced and marketed disinfection and hygiene products for many years. These products are manufactured to the highest international standards and are sold worldwide.

Further disinfectant and hygiene products are available on request for:

- Hand hygiene
- Skin disinfection
- Surface disinfection
- Manual processing of instruments

Art. No.	Product name	Packaging unit	Canisters per pallet
7120222	Tiutol® KF	5-litre canisters	128

- Shelf life: 36 months



11. Adapters

11.1 Duosol® Adapter

Adapter: male Luer-Lock (1) to Dialoc®/Safe Lock® Luer (1).

Designed to connect conventional tubing to Dialoc®/ Safe Lock® male Luer-Lock ports with female Luer-Lock connectors on Duosol® haemofiltration solution bags.



Art. No.	Product name	Packaging unit
602060	Duosol® adapter	1 pcs.

- Shelf life: 60 months

11.2 SH-BIC Adapter

Adapter: Dialoc® male (1) to Luer-Lock female (1).

Designed to connect conventional tubing to Luer-lock male ports with female Dialoc® connector on SH-BIC haemofiltration solution bags.



Art. No.	Product name	Packaging unit
523	SH-BIC adapter	1 pcs.

- Shelf life: 60 months

Product Description

Duosol® without Potassium solution for haemofiltration, Duosol® with 2 mmol/l Potassium solution for haemofiltration, Duosol® with 4 mmol/l Potassium solution for haemofiltration

Composition

Please see page 25

Indications

The ready-to-use solution is indicated for the treatment by continuous haemofiltration of intensive care unit patients with acute renal failure of any origin.

Contraindications

Ready-to-use solution-dependent contraindications:

- Hypokalaemia (Duosol® without potassium, Duosol® with 2 mmol/l potassium)
- Hyperkalaemia (Duosol® with 4 mmol/l potassium)
- Metabolic alkalosis

Haemofiltration-dependent contraindications:

- Acute renal failure with marked metabolic processes (hypercatabolism), if the uraemic symptoms cannot be corrected any longer by haemofiltration
- Inadequate blood flow from the vascular access
- All states with elevated haemorrhage risk on account of systemic anticoagulation.

Use during pregnancy

There are no current reports of clinical experience. The bicarbonate-buffered solution for haemofiltration may only be administered after consideration of the potential risks and benefits for mother and child.

Use during lactation

No special restrictions.

Undesirable effects

Side effects can result from the treatment or the solution for haemofiltration used. Bicarbonate-buffered haemofiltration solutions are generally well tolerated. There have been no reports of adverse events or side effects, that might possibly be associated with the bicarbonate-buffered solution for haemofiltration.

However, the following side effects are conceivable:

Hyper- or hypohydration, electrolyte disturbances (e.g. hypokalaemia with Duosol®

without potassium and Duosol® with 2 mmol/l potassium; hyperkalaemia with Duosol® with 4 mmol/l potassium), hypophosphataemia, hyperglycaemia and metabolic alkalosis.

The following side effects may occur during treatment: nausea, vomiting, muscle cramps and hypotension.

Marketing authorisation holder

B. Braun Avitum AG
Schwarzenberger Weg 73-79
34212 Melsungen
Germany

Isotonic sodium chloride solution

Composition

Active substances:

1000 ml contain:

Sodium chloride 9.0 g

Other ingredients

Water for injections

Electrolytes:

Na⁺ 154 mmol/l

Cl⁻ 154 mmol/l

theoretical osmolarity 308 mOsm/l

pH-value 4.5-6.5

Indications

Solution for infusion is indicated for:

- Short-term intravascular volume substitution
- isotonic dehydration or hypotonic

dehydration

- Irrigation solution
- Vehicle solution for compatible electrolyte concentrates and drugs
- Externally for wound irrigation and for moistening of wound tamponades and dressings

Contraindications

Isotonic Sodium Chloride solution is contraindicated for patients in states of hyperhydration.

Special warnings and precautions for use

Isotonic sodium chloride solution should only be administered with caution in cases of: hypernatraemia, hyperchloraemia, hypokalaemia and disorders where restriction of

sodium intake is indicated, such as cardiac insufficiency, generalized oedema, pulmonary oedema, hypertension, eclampsia, severe renal insufficiency.

High infusion rates should be avoided in cases of hypertonic dehydration because of possible increases of plasma osmolarity and plasma sodium concentration.

Clinical monitoring should include serum electrolytes and fluid balance.

Use during pregnancy and lactation

There are no restrictions for use during pregnancy and lactation.

Undesirable effects

Hypernatraemia or hyperchloraemia may occur during treatment.

Marketing authorisation holder

B. Braun Avitum AG
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Notes

