-----: ORDIN DE PLATA NR.: 900 TIP.DOC. 1 : DATA EMITERII:9 septembrie 2021 : -------PLATITI: 19000-00 LEI: Nouasprezece Mii lei 00 bani : : ______ PLATITOR:(R) "BIOSISTEMCONTUL DE PLATI/CODUL IBANMLD" S.R.L.MD95ML00000002251429243 : : CODUL FISCAL :1010600028048 / • PRESTATORUL PLATITOR CODUL BANCII: BC"Moldindconbank"S.A. fil."Invest" Chisinau :MOLDMD2X329: BENEFICIAR (R) Centrul pen CONTUL DE PLATI/CODUL IBAN : tru achizitii publice central MD23TRPCCC518430B01859AA CODUL FISCAL :1016601000212 / izate in sanatate : : ______ PRESTATORUL BENEFICIAR CODUL BANCII: Ministerul Finantelor - Trezoreria de Stat :TREZMD2X : ------DESTINATIA PLATII:/P102/19000,00 Pentru : TIPUL TRANSFERULUI : garantia pentru oferta la procedura de a: NORMAL/URGENT :N: chizi?ie publica nr. ocds-b3wdp1-MD-1628: 158934564 din 10.09.2021 : : L.S. : : : CODUL TRANZACTIEI:101: DATA PRIMIRII:09/09/2021 : SEMNATURILE : DATA EXECUTARII: : EMITENTULUI :-----: CONDUCATOR: Web Poiata Vitalie MIIGYwYJKoZIhvcNAQcCoIIGVDCCBlACAQExCzAJBgUrDgMCGgUAMAsGCSqGSIb: DQEHAaCCBGwwqqRoMIIDUKADAqECAhNHAACjbilrqFksQ0G4AAAAAKNuMA0GCSq: SIb3DQEBCwUAMCIxIDAeBqNVBAMTF0NFUlQxLUNBLU1vbGRpbmRjb25iYW5rMB4: DTIxMDEyODExMzgwNVoXDTI0MDEyODExNDgwNVowgZ8xCzAJBgNVBAYTAk1EMRA: gYDVQQIEwdNb2xkb3ZhMREwDwYDVQQHEwhDaGlzaW5hdTEWMBQGA1UEChMNQml : (semnatura electronica) : CONTABIL-SEF:Web Nasedchin Alexandr MIIGZwYJKoZIhvcNAQcCoIIGWDCCBlQCAQExCzAJBgUrDgMCGgUAMAsGCSqGSIb3: ${\tt DQEHAaCCBHAwggRsMIIDVKADAgECAhNHAACjcahRKqbJeg8QAAAAAKNxMA0GCSqG:}$ SIb3DQEBCwUAMCIxIDAeBgNVBAMTF0NFUlQxLUNBLU1vbGRpbmRjb25iYW5rMB4X: DTIxMDEyODExMzkxOFoXDTI0MDEyODExNDkxOFowgaMxCzAJBgNVBAYTAk1EMRAw: YDVQQIEwdNb2xkb3ZhMREwDwYDVQQHEwhDaGlzaW5hdTEWMBQGA1UEChMNQmlv : L S (semnatura electronica) : CONDUCATOR: (semnatura manuala) CONTABIL-SEF: (semnatura manuala) : SEMNATURA PRESTATORUL L.S. :----: MOTIVUL REFUZULUI : L.S. : ------



BC "MOLDINDCONBANK" S.A. Filiala "Invest"

Republica Moldova, MD-2068 mun. Chişînău, bd. Moscovei, 14/1 Tel. : (373-22) 43-44-81, 43-46-24 Fax : (373-22) 43-44-22 cod: MOLDMD2X329

1 4. IAN. 2016 Data Nr.

Республика Молдова, MD-2068 мун. Кишинэу, бул. Московей, 14/1 Тел. : (373-22) 43-44-81, 43-46-24 Факс : (373-22) 43-44-22 код: MOLDMD2X329

Filiala "Invest" BC "Moldindconbank" SA confirmă existența contului curent in moneda nationala al "BIOSISTEM MLD" S.R.L. (c/f 1010600028048), cu IBAN MD95ML00000002251429243.

Codul băncii MOLDMD2X329.

Director



Nina **Ţurcan**



1 Balmey

Nina Balmuş

Ex. Diana Brinza Tel. 43-45-96



MOLDOVA

CERTIFICAT DE ÎWREGISTRARE

Societatea cu Răspundere Limitată "BIOSISTEM MLD" ESTE ÎNREGISTRATĂ LA CAMERA ÎNREGISTRĂRII DE STAT

Numărul de identificare de stat - codul fiscal 1010600028048

Data înregistrării

Data eliberării

12.08.2010

12.08.2010

Svirepova Ludmila, registrator

Funcția, numele, prenumele persoanei care a eliberat certificatul

semnătura



MD 0101250



I.P. "AGENȚIA SERVICII PUBLICE"

Departamentul înregistrare și licențiere a unităților de drept

EXTRAS din Registrul de stat al persoanelor juridice

nr. 8506 din 28.04.2021

Denumirea completă: Societatea cu Răspundere Limitată «BIOSISTEM MLD». Denumirea prescurtată: «BIOSISTEM MLD» S.R.L.

Forma juridică de organizare: Societate cu Răspundere Limitată.

Numărul de identificare de stat și codul fiscal: 1010600028048.

Data înregistrării de stat: 12.08.2010.

Sediul: MD-2001, str. Albișoara, 16/1, ap.(of.) 7, mun. Chișinău, Republica Moldova. Obiectul principal de activitate:

1 Activitatea farmaceutică;

2 Importul, fabricarea, comercializarea, asistența tehnică și (sau) reparația dispozitivelor medicale și (sau) a opticii;

3 Acordarea asistenței medicale de către instituțiile medico-sanitare private;

4 Comerțul cu ridicata al calculatoarelor, echipamentelor periferice și software-ului;

5 Întreținerea și repararea mașinilor de birou și a tehnicii de calcul;

6 Consultații în domeniul sistemelor de calcul.

Capitalul social: 5400 lei.

Administrator: POIATA VITALIE, Asociați:

1. POIATA VITALIE 33,40 %

2. NASEDCHIN ALEXANDR 33,30 %

3. KOJEVNIKOV DMITRII 33,30 %.

Prezentul extras este eliberat în temeiul art. 34 al Legii nr. 220-XVI din 19 octombrie 2007 privind înregistrarea de stat a persoanelor juridice și a întreprinzătorilor individuali și confirmă datele din Registrul de stat la data de: 28.04.2021.

Contractor Lazari Aliona Specialist coordonator tel. 022-207-840 CHISINA 003



c/f 1010600028048; adresa: or. Chişinău, str. Albișoara 16/1 of.7 tel.+373-22-808-517, +373-22-808719, fax: +373-22-808-519. Web: www.biosistem-mld.com; e-mail: biosistem.mld@gmail.com

Lista fondatorilor Biosistem-mld SRL

Nr.	Nume, Prenume	IDNP
1.	Vitalie Poiata	0983103892591
2.	Alexandr Nasedchin	2002001070747
3.	Dmitrii Kojevnikov	0972305012362

Anexa nr.7.2 la Instrucțiunea aprobată prin ordinul IFPS nr. 400 din 14 martie 2014

CC 04 AE

CERTIFICAT

privind lipsa sau existența restanțelor față de bugetul public național

Nr. № A2115192	din ot	08.09.2021	
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1. Destinația / Назначение

Pentru participarea la proceduri de achizitii publice

2. Date despre contribuabil / Информация о налогоплательщике

Denumirea	Codul fiscal / Numărul de identificare
Наименование	Фискальный код / Идентификационный номер
BIOSISTEM MLD S.R.L.	1010600028048
Adresa sediului de bază (strada, numărul)	Codul - Denumirea localității
Адрес основного месторасположения (улица, номер)	Код - Наименование населенного пункта
Albisoara nr.16 bl.1 of.7	0150-SEC.RISCANI

3. Atestarea lipsei sau existenței restanțelor conform datelor Sistemului Informațional Automatizat / Подтверждение отсутствия или наличия недоимки согласно данных Информационной автоматизированной системы

La data emiterii prezentului certificat restanța față de bugetul public național constituie/ На дату выдачи данной справки недоимка перед национальным публичным бюджетом составляет: **0,00** lei/лей.

4. Valabil pînă la / Действителен до 23.09.2021

5-Ацтенцисатеа Serviciului Fiscal de Stat / Подтверждение Государственной налоговой службы

Sef DDF Rîscani GARmun.Chişinău ERUL unctia/Должность Claudia GOJAN eengr; 00 RVICIUL Function prenumele/Фамилия и имя

Semnătura/Подпись

Viorica CĂUȘ Numele și prenumele/Фамилия и имя

Este extras din Sistemul Informațional al SFS SIA "Contul curent al contribuabilului"// 08.09.2021 ora 14:25:51 cu aplicarea prevederilor pct. 82-83 Ordin IFPS nr.400 din 14.03.2014 (Monitorul Oficial 72-77/399, 28.03.2014) NOTA (3,52)

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Cod CLATE: <u>019, SEC.REX.NI</u> Brada: <u>SECTORUL BISCANI STRABBiogran nr 16 bl 1 of Z</u> Activitates principals: <u>G6465</u> , <u>Comert cu idicata al producelor farmaceutice</u> Forma organizatorico-juridica: <u>330, Societàti cu idicuta al producelor farmaceutice</u> Dista de contact: Telefon: <u>137222000719</u> WEB: Brami: <u>milliäsmaitri</u> Numele și coordonatele al contabilului-șef: Di (dna) Tel. Numărul mediu al salariștilor în perioada de gestiune: <u>2</u> persoane. Persoanele responsabile de semnarea situațiilor financiare [*] <u>Nasedchin Alexandr</u> BILANȚUL	
Strade: SECTORUL RISCANI STRAIbisoara nr.16 bil of.Z Activitates principali: GEGSS.Comet cu indicate al producelor farmaceutice Form de propriotate: Legoslate codectio: Form de compriotate: Legoslate codectio: Teolero: ::27200712 WEB:	
Activitatea principalia: <u>Ed546. Coment cu ridicata al producelor farmaceutice</u> Forma de proprietate: <u>16. Proprietate colectiva</u> Forma organizatorico-juvridică: <u>330. Societăti cu răspundere limitată</u> Date de contat: Telefon: <u>137222080719</u> WENE: E-maii: <u>zmili 3@mail.cu</u> Rumêre și coordonatele al contabilului-șef: Di (dna) Tel. Numărul mediu al salariștilor în perioada de gestiune: <u>2</u> persoane. Persoanele responsabile de semnarea situațiilor financiare [*] <u>Nasedchin Alexand</u> : Unitatea de mi	
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Forma or proprietate: <u>Mar. Input.Bat. Const.Ud.</u> Forma or proprietate: <u>Mar. Input.Bat. Const.Ud.</u> Date de contact: Talefon: <u>137322609719</u> WEB: Email: <u>mult.36mal.cc</u> Numer și coordonatele al contabilului-șef: Di (dna) Tel. Numărul mediu al salariaților în perioada de gestiune: <u>1</u> persoane. Persoanele responsabile de semnarea situațiilor financiare* <u>Nacedchin Alexand</u> : Unitatea de mi BILANȚUL	
Forma organizatione grundet 2004. Socienal (ur raspondere immaa) Date de contact: Teafors: ::7722200713 WEB: E-mail: ::20123@mail.cu Numër și coordonatele al contabilului-șef: Di (dna) Tel. Numărul mediu al salarăștilor în perioada de gestune: ::2 persoane. Persoanele responsabile de semnarea situațiilor financiare* <u>Nasedcân Alexandr</u> Unitatea de mi BILANȚUL	
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Telefon: <u>17322800719</u> VEFE: E-mail: <u>zml13@mail.u</u> Rumée și coordonatele al contabilului-șef: Dl (dna) Tel. Rumărul mediu al salarișilor în perioada de gestiune: <u>a</u> persoane. Persoanele responsabile de semnarea situațiilor financiare* <u>Nascictin Alexand</u> : Unitatea de mi BILANȚUL	
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Persoanele responsabile de semnarea situațiilor financiare* <u>Nasedchin Alexand;</u> Unitatea de m BILANȚUL	
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	Anexa 1
ia contra c	

	Indicatori		Sold la		
Nr. cpt.		Cod rd.	Începutul perioadei de gestiune	Sfîrșitul perioadei de gestiune	
1	2	3	4	5	
	ACTIV				
	ACTIVE IMOBILIZATE				
	I. Imobilizări necorporale				
	1. Imobilizări necorporale în curs de execuție	010			
	2. Imobilizări necorporale în exploatare, total	020	487		
	din care:				
	2.1. concesiuni, licențe și mărci	021	487		
	2.2. drepturi de autor și titluri de protecție	022			
	2.3. programe informatice	023			
	2.4. alte imobilizări necorporale	024			
	3. Fond comercial	030			
	4. Avansuri acordate pentru imobilizări necorporale	040			
	Total imobilizări necorporale (rd.010 + rd.020 + rd.030 + rd.040)	050	487		
	II. Imobilizări corporale				
	1. Imobilizări corporale în curs de execuție	060			
	2. Terenuri	070			
	3. Mijloace fixe, total	080	2208593	27936	
	din care:	001			
	3.1. clădiri	081			
	3.2. construcții speciale	082			
	3.3. mașini, utilaje și instalații tehnice	083	2204135	27916	
	3.4. mijloace de transport	084			

				1
2. 3. 4. 5. 5. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	2.4. alte investiții financiare în părți afiliate	394		
C. 2 2 7 0 0 0 7 0 0 0 1 1 2 1 1 2 3 3 4 4 5 7 7 0 1 1 2 3 7 0 1 1 2 3 7 0 1 1 2 4 4 1 1 2 3 7 7 0 1 1 1 2 3 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total investiții financiare curente (rd.380 + rd.390)	400		
	IV. Numerar și documente bănești	410	8911899	3942779
	TOTAL ACTIVE CIRCULANTE (rd.290 + rd.370 + rd.400 + rd.410)	420	20828724	20958928
	TOTAL ACTIVE (rd.230 + rd.420)	430	23037804	23752565
	PASIV			
	CAPITAL PROPRIU			
	I. Capital social și neînregistrat			
	1. Capital social	440	5400	5400
	2. Capital nevărsat	450	()	()
	3. Capital neînregistrat	460		
	4. Capital retras	470	()	()
	5. Patrimoniul primit de la stat cu drept de proprietate	480		
	Total capital social și neînregistrat (rd.440 + rd.450 + rd.460 + rd.470 + rd.480)	490	5400	5400
	II. Prime de capital	500		
	III. Rezerve			
	1. Capital de rezervă	510		
С.	2. Rezerve statutare	520		
	3. Alte rezerve	530		
	Total rezerve (rd.510 + rd.520 + rd.530)	540		
	IV. Profit (pierdere)			
	1. Corecții ale rezultatelor anilor precedenți	550	х	
	2. Profit nerepartizat (pierdere neacoperită) al anilor precedenți	560	21021465	1208529
	3. Profit net (pierdere netă) al perioadei de gestiune	570	х	797483
	4. Profit utilizat al perioadei de gestiune	580	x	()
	Total profit (pierdere) (rd.550 + rd.560 + rd.570 + rd.580)	590	21021465	2006012
	V. Rezerve din reevaluare	600		
	VI. Alte elemente de capital propriu	610		
	TOTAL CAPITAL PROPRIU (rd.490 + rd.500 + rd.540 + rd.590 + rd.600 + rd.610)	620	21026865	20065526
	DATORII PE TERMEN LUNG			
	1. Credite bancare pe termen lung	630		
	2. Împrumuturi pe termen lung	640		
	din care: 2.1. împrumuturi din emisiunea de obligațiuni	641		
	inclusiv: împrumuturi din emisiunea de obligațiuni convertibile	642		
	2.2. alte împrumuturi pe termen lung	643		
D.	3. Datorii comerciale pe termen lung	650		
	4. Datorii față de părțile afiliate pe termen lung	660		
	inclusiv: datorii aferente intereselor de participare	661		
	5. Avansuri primite pe termen lung	670		
	6. Venituri anticipate pe termen lung	680		
	7. Alte datorii pe termen lung	690		
	TOTAL DATORII PE TERMEN LUNG (rd.630 + rd.640 + rd.650 + rd.660 + rd.670 + rd.680 + rd.690)	700		
	DATORII CURENTE			
	1. Credite bancare pe termen scurt	710		
			1	1

2.5. Januarka al anakilian	005		
3.5. Inventar și mobilier	085	4459	200
A Beauty electric	000	4436	200
4. Resurse minerale	090		
5. Active biologice imobilizate	100		
7. Anneard annohiste annear landellicit annearla	110		
7. Avansuri acordate pentru imobilizari corporale	120		
(rd.060 + rd.070 + rd.080 + rd.090 + rd.100 + rd.110 + rd.120)	130	2208593	279363
III. Investiții financiare pe termen lung			
 Investiții financiare pe termen lung în părți neafiliate 	140		
 Investiții financiare pe termen lung în părți afiliate, total 	150		
din care:	161		
 acțiuni și cote de participație deținute în părțile afiliate 	151		
2.2 împrumuturi acordate părților afiliate	152		
2.3 împrumuturi acordate aferente intereselor de participare	153		
2.4 alte investiții financiare	154		
Total investiții financiare pe termen lung (rd.140 + rd.150)	160		
IV. Creanțe pe termen lung și alte active imobilizate			
1. Creanțe comerciale pe termen lung	170		
 Creanțe ale părților afiliate pe termen lung 	180		
inclusiv: creanțe aferente intereselor de participare	181		
3. Alte creante pe termen lung	190		
4. Cheltuieli anticipate pe termen lung	200		
5. Alte active imobilizate	210		
Total creante pe termen lung și alte active imobilizate (rd.170 + rd.180 + rd.190 + rd.200 + rd.210)	220		
TOTAL ACTIVE IMOBILIZATE (rd.050 + rd.130 + rd.160 + rd.220)	230	2209080	27936
ACTIVE CIRCULANTE			
I. Stocuri			
1. Materiale și obiecte de mică valoare și scurtă durată	240	54051	5197
2. Active biologice circulante	250		
3. Producția în curs de execuție	260		
4. Produse și mărfuri	270	5710647	722120
5. Avansuri acordate pentru stocuri	280		
Total stocuri (rd.240 + rd.250 + rd.260 + rd.270 + rd.280)	290	5764698	727318
II. Creanțe curente și alte active circulante			
1. Creante comerciale curente	300	4337729	391221
2. Creante ale părtilor afiliate curente	310		
inclusiv: creanțe aferente intereselor de participare	311		
3. Creante ale bugetului	320	166486	7463
4. Creantele ale personalului	330		
5. Alte creante curente	340		
6. Cheltuieli anticipate curente	350	4	
7. Alte active circulante	360	1647908	575611
Total creanțe curente și alte active circulante (rd 300 + rd 310 + rd 320 + rd 330 + rd 340 + rd 350 + rd 350)	370	6152127	974296
III. Investitii financiare curente			
1 Investitii financiare curente în nărți neafiliate	380		
Investitii financiare curente în părți afiliate total	390		
din care:	350		
 acțiuni și cote de participație deținute în părțile afiliate 	391		
2.2. împrumuturi acordate părților afiliate	392		

	din care:			
	2.1. împrumuturi din emisiunea de obligațiuni	/21		
	inclusiv: împrumuturi din emisiunea de obligațiuni convertibile	722		
	2.2. alte împrumuturi pe termen scurt	723		
	3. Datorii comerciale curente	730	1331928	3252667
E.	4. Datorii față de părțile afiliate curente	740		
	inclusiv: datorii aferente intereselor de participare	741		
	5. Avansuri primite curente	750	159545	188105
	6. Datorii față de personal	760	2913	50
	7. Datorii privind asigurările sociale și medicale	770		
	8. Datorii față de buget	780	434590	187676
	9. Datorii față de proprietari	760 2913 medicale 770		
	10. Venituri anticipate curente	800		
	11. Alte datorii curente	810	81963	58541
	TOTAL DATORII CURENTE (rd.710 + rd.720 + rd.730 + rd.740 + rd.750 + rd.760 + rd.770 + rd.780 + rd.790 + rd.800 + rd.810)	820	2010939	3687039
	PROVIZIOANE			
	1. Provizioane pentru beneficiile angajaților	830		
	2. Provizioane pentru garanții acordate cumpărătorilor/clienților	840		
	3. Provizioane pentru impozite	850		
r.	4. Alte provizioane	860		
	TOTAL PROVIZIOANE (rd.830 + rd.840 + rd.850 + rd.860)	870		
F	TOTAL PASIVE (rd.620 + rd.700 + rd.820 + rd.870)	880	23037804	23752565

	ndicatori Cod rd. precedenta 1 2 3 6010 6010 6010 601 601 601 601 601 601	Perioada d	e gestiune
Indicatori	Cod rd.	procedenta	surenta
	2	2	
-	2	3	-
Venituri din vinzari, total	010	2/31961/	25963175
din care:	011	26856566	25044358
venituri din vînzarea produselor și mărfurilor			
venituri din prestarea serviciilor și executarea lucrărilor	012	463051	918817
venituri din contracte de construcție	013		
venituri din contracte de leasing	014		
venituri din contracte de microfinanțare	015		
alte venituri din vînzări	016		
Costul vînzărilor, total	020	15672962	15186814
din care:			
valoarea contabilă a produselor și mărfurilor vîndute	021	15672962	15186814
costul serviciilor prestate și lucrărilor executate terților	022		
costuri aferente contractelor de construcție	023		
costuri aferente contractelor de leasing	024		
costuri aferente contractelor de microfinanțare	025		
alte costuri aferente vînzărilor	026		
Profit brut (pierdere brută) (rd.010 - rd.020)	030	11646655	10776361
Alte venituri din activitatea operațională	040	28586	247603
Cheltuieli de distribuire	050	16306	19740
Cheltuieli administrative	060	964136	1259776
Alte cheltuieli din activitatea operațională	070	417394	640169
Rezultatul din activitatea operațională: profit (pierdere) (rd.030 + rd.040 - rd.050 - rd.060 - rd.070)	080	10277405	9104279

Venituri financiare, total	090	490609	519239
din care:			
venituri din interese de participare	091		
inclusiv: veniturile obținute de la părțile afiliate	092		
venituri din dobînzi	093		25612
inclusiv: veniturile obținute de la părțile afiliate	094		
venituri din alte investiții financiare pe termen lung	095		
inclusiv: veniturile obținute de la părțile afiliate	096		
venituri aferente ajustărilor de valoare privind investițiile financiare pe termen lung și curente	097		
venituri din ieșirea investițiilor financiare	098		
venituri aferente diferențelor de curs valutar și de sumă	099	490609	493627
Cheltuieli financiare, total	100	686605	597528
din care:			
cheltuieli privind dobînzile	101		
inclusiv: cheltuielile aferente părților afiliate	102		
cheltuieli aferente ajustărilor de valoare privind investițiile financiare pe termen lung și curente	103		
cheltuieli aferente ieșirii investițiilor financiare	104		
cheltuieli aferente diferențelor de curs valutar și de sumă	105	686605	597528
Rezultatul: profit (pierdere) financiar(ă) (rd.090 - rd.100)	110	-195996	-78289
Venituri cu active imobilizate și excepționale	120		
Cheltuieli cu active imobilizate și excepționale	130		
Rezultatul din operațiuni cu active imobilizate și excepționale: profit (pierdere) (rd.120 - rd.130)	140		
Rezultatul din alte activități: profit (pierdere) (rd.110 + rd.140)	150	-195996	-78289
Profit (pierdere) pînă la impozitare (rd.080 + rd.150)	160	10081409	9025990
Cheltuieli privind impozitul pe venit	170	1178993	1051159
Profit net (pierdere netă) al perioadei de gestiune (rd.160 - rd.170)	180	8902416	7974831

SITUAȚIA MODIFICĂRILOR CAPITALULUI PROPRIU

Nr. d/o	Indicatori	Cod rd	Sold la începutul perioadei de gestiune	Majorări	Diminuări	Sold la sfîrșitul perioadei de gestiune
1	2	3	4	5	6	7
	Capital social și neînregistrat					
	1. Capital social	010				
	2. Capital nevărsat	020	()	()	()	(
	3. Capital neînregistrat	030				
1.	4. Capital retras	040	()	()	()	(
	5. Patrimoniul primit de la stat cu drept de proprietate	050				
	Total capital social și neînregistrat (rd.010 + rd.020 + rd.030 + rd.040 + rd.050)	060				
П.	Prime de capital	070				
	Rezerve					
	1. Capital de rezervă	080				
ш.	2. Rezerve statutare	090				
	3. Alte rezerve	100				
	Total rezerve (rd.080 + rd.090 + rd.100)	110				
	Profit (pierdere)					
	1. Corectii ale rezultatelor anilor precedenti	120	x			

2. Profit nerepartizat (pierdere neacoperită) al anilor precedenți 130 3. Profit net (pierdere netă) al perioadei de gestiune IV. 140 х 4. Profit utilizat al perioadei de gestiune 150 х Total profit (pierdere) (rd.120 + rd.130 + rd.140 + rd.150) 160 V. Rezerve din reevaluare VI. Alte elemente de capital propriu 170 VI. 180 Total capital propriu (rd.060 + rd.070 + rd.110 + rd.160 + rd.170 + rd.180) 190

SITUAȚIA FLUXURILOR DE NUMERAR

Indicatori	Coded	Perioada de gestiune		
indicatori	Cod rd	precedentă	curentă	
1	2	3	4	
Fluxuri de numerar din activitatea operațională				
Încasări din vînzări	010			
Plăți pentru stocuri și servicii procurate	020			
Plăți către angajați și organe de asigurare socială și medicală	030			
Dobînzi plătite	040			
Plata impozitului pe venit	050			
Alte încasări	060			
Alte plăți	070			
Fluxul net de numerar din activitatea operațională (rd.010 - rd.020 - rd.030 - rd.040 - rd.050 + rd.060 - rd.070)	080			
Fluxuri de numerar din activitatea de investiții				
Încasări din vînzarea activelor imobilizate	090			
Plăți aferente intrărilor de active imobilizate	100			
Dobînzi încasate	110			
Dividende încasate	120			
inclusiv: dividende încasate din străinătate	121			
Alte încasări (plăți)	130			
Fluxul net de numerar din activitatea de investiții (rd.090 - rd.100 + rd.110 + rd.120 ± rd.130)	140			
Fluxuri de numerar din activitatea financiară				
Încasări sub formă de credite și împrumuturi	150			
Plăți aferente rambursării creditelor și împrumuturilor	160			
Dividende plătite	170			
inclusiv: dividende plătite nerezidenților	171			
Încasări din operațiuni de capital	180			
Alte încasări (plăți)	190			
Fluxul net de numerar din activitatea financiară (rd.150 - rd.160 - rd.170 + rd.180 ± rd.190)	200			
Fluxul net de numerar total (± rd.080 ± rd.140 ± rd.200)	210			
Diferențe de curs valutar favorabile (nefavorabile)	220			
Sold de numerar la începutul perioadei de gestiune	230			
Sold de numerar la sfîrșitul perioadei de gestiune (± rd.210 ± rd.220 + rd.230)	240			

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Расписка 2

Респондент Фискальный код: 1010600028048, наименование: BIOSISTEM MLD S.R.L.

Предоставил отчёт: <u>RSF1_21</u>

На фискальный период: <u>А/2020</u> Дата предоставления: <u>11.05.2021</u>

Дана продосналения. <u>11.02.2021</u> Временная метка отчёта зарегистрированного в Информационной Системе НБС : <u>11.05.2021</u> <u>12:26:31</u>

National Bureau of Statistics (NBS) received the electronic version of the report, sent by you. The data provided is verified by NBS.

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Расписка

Респондент Фискальный код: 1010600028048, наименование: BIOSISTEM MLD S.R.L. Предоставил отчёт: <u>RSF1_21</u> Предоставил отчет: <u>KSF1_21</u> На фискальный период: <u>A/2020</u> Дата предоставления: <u>11.05.2021</u> Временная метка отчёта зарегистрированного в Системе Электронной Отчётности и отправленного в Информационную Систему БНС : <u>11.05.2021</u> 10:00:47



c/f 1010600028048; adresa: str. Albişoara 16/1 of.7, or. Chişinău tel.+373-22-808517, +373-22-808719, fax +373-22-808519. Web: www.biosistem-mld.com; e-mail: biosistem.mld@gmail.com

> Către Grupul de lucru pentru evaluarea Procedurii de achiziție nr. ocds-b3wdp1-MD-1628158934564 Din 18 aug 2021, 12:08 - 10 sept 2021, 12:08 din cadrul CAPCS

Declarație

Prin prezenta, SRL "Biosistem-mld", declara ca :

- Termenul de valabilitate restant (la momentul livrării) va constitui 80% din termenul total al produsului, dar nu mai mic de 12 luni..
- Pentru produsele noi sau necunoscute pentru medici, vor fi prezentate mostre de către potențialii cîștigători în termen de 5 zile de la solicitare
- Va inregistra bunurile contractate la Agentia Medicamentului si a Dispozitivelor Medicale până la momentul livrării acestuia.

_____Vitalie Poiata

L.Ş.



CARBOMEDICS® FAMILY Tailored reliability for patients and surgeons



Adult and Pediatric bileaflet mechanical heart valves

CARBOMEDICS® FAMILY

Tailored options for better patient outcomes

With its Carbomedics line of products LivaNova offers cardiac surgeons and patients a complete set of mechanical heart valve solutions to reliably treat even the most challenging cases.

The Carbomedics name is intrinsically linked to the historical development of mechanical heart valves. Carbomedics is well recognized for having pioneered and mastered pyrolytic Carbon technology for prosthetic devices in the late 1960's, supplying pyrolite components for over 2 million valves manufactured by 14 different companies worldwide. Carbomedics has also contributed to the design and manufacturing of 17 types of valves for a number of companies.

Based on this great expertise and with the clear mission of providing highly reliable and technologically advanced solutions, in 1986 Carbomedics introduced to the market the first mechanical bileaflet valve with a rotatable housing for optimal leaflet positioning. Since this first step, the Carbomedics portfolio has been enriched over time up to the current, complete and compelling set of solutions that offer surgeons the maximum flexibility while treating their patients.

Choosing a Carbomedics mechanical valve today means choosing an utmost reliable solution, with no reported post-operative structural failures* in over 900.000 implants and proven, excellent clinical results in over 20 years of follow up.

* No reported structural valve failure in the published scientific literature. None of the events reported to LivaNova Quality System has been classified as structural valve failure upon completion of the analysis.

CARBOMEDICS® FAMILY



Tailored safety and durability

Leader in biocompatible materials

Due to its robust design, the Carbomedics bileaflet mechanical heart valve has no reported post-operative structural failures* in over 900.000 implants worldwide.

Carbomedics Pyrolite[®] Carbon is engineered to provide excellent thromboresistance combined with optimal strength.

This is achieved by co-depositing a small amount of Silicon during the manufacturing process, because the Silicon acts as a reinforcing element to the crystal structure of Pyrolytic Carbon.¹The surface is then polished to remove the superficial roughness, thus achieving a mirror like finish.

Polished Silicon alloyed varieties of Pyrolytic Carbon exhibit an excellent degree of thromboresistance while improving resistance to wear,^{1,2} offering excellent and durable clinical results as proven in over 20 years of clinical follow up.



A robust design for no structural failure

Pyrolytic carbon coated leaflets

The leaflets of the Carbomedics valves are made of a substrate of tungsten filled graphite coated with Pyrolite® Carbon. The presence of Tungsten provides better radiopacity allowing a non invasive diagnostic observation of the leaflets' motion through fluoroscopy or similar methodologies.

Pyrolytic carbon housing

Differently from the substrate processes used by other manufacturers, which results in a graphite core coated with pyrolytic carbon, Carbomedics valves employ an advanced mandrel process resulting in a low profile housing made entirely of Pyrolite[®] Carbon.

The mandrel process allows pivots to be located within the housing, minimizing pannus ingrowth and interference with leaflet motion that can occur around the protruding "pivot ear" design.^{3,4,5} Moreover, it permits a more sophisticated design of the pivot, the shape of which grants total washing of its entire surface, minimizing thromboembolic events.⁶

Structural components

To further enhance structural stability, the housing is reinforced by a titanium stiffening band which makes it up to 30 times stronger than a valve without a stiffening element, minimizing the risk of deformation and consequently, the risk of leaflet dislodgement or lockup.⁷

A lock wire forms a solid mechanical bond between the housing and the titanium reinforcement band while creating a track for rotation. Secure attachment of the sewing cuff to the housing is ensured by double lock wires.

5







^{1.} Carbon Biomedical Devices. J.C. Bokros - Carbon, 1977;15:355-71.

^{2.} Platelet responses to silicon-alloyed pyrolytic carbons. Goodman et al. - Wiley Periodicals, Inc. J Biomed Mater Res 83A: 64-69, 2007

Obstruction of St Jude medical valves in the aortic position: a consideration for pathogenic mechanism of prosthetic valve obstruction. Aoyagi et al. - Cardiovasc Surg. 2002 Aug;10(4):339-44

^{4.} Entrapment of subvalvular mitral tissue causing intermittent failure of a St Jude mitral prosthesis. Dearani et Al. "- J Am Soc Echocardiogr. 2000 Dec;13(12):1121-3

^{5.} Entrapment of mitral chordal apparatus causing early postoperative dysfunction of a St. Jude mitral prosthesis. Greaves et Al. -J Am Soc Echocardiogr. 2002 Aug;15(8):843-4

^{6.} Echocariodgraphic Description Of The Carbomedics Bileaflet Prosthetic Heart Valve. Chambers et al.- J Am Coll Cadiol 1993;21:398-405

^{7.} Leaflet arrest in St Jude medical and Carbomedics valves: an experimental study. Grattan MT, Thulin LI, Eur J - Cardiothoracic Surg. 2004 Nov; 25 (6): 953-7



Tailored performance for excellent clinical outcomes

Carbomedics valves are engineered to achieve true clinical benefits for patients throughout their lifetime

In its long clinical history Carbomedics valve has demonstrated to be of utmost reliability and safety, with no post-operative structural failures and very low incidence of complications. The enhanced orifice hinge design allows for low thrombogenicity, minimizing pannus overgrowth. The inner surfaces of the pivots are completely open to the flow for washing when the leaflets are closed.⁶

The effectiveness of the Carbomedics design is reflected in the low linearized rates (%/pt-yr) of thromboembolic events reported in published scientific literature.



References:

Carrier. J Heart V Dis 2006 Jan;15(1): 67-72 Aagard. J Heart V Dis 2005 Jan;14(1): 82-8. Tominaga. Ann Thorac Surg 2005 Mar;79(3): 784-9 Kang. Ann Thorac Surg. 2005 Jun;79(6): 1939-44. Wu. J Heart V Dis 2006 15: 414-420 Onoda. Artificial Organs 2002 26(5): 479-82

Twenty-Year Experience With the CarboMedics Mechanical Valve Prosthesis

These outstanding clinical results are confirmed by over twenty years of published follow up.8



Linearized rate of adverse events (% PT-YR)

* Pooled analysis of cited references. If follow-up years for subgroups (AVR, MVR) was not reported in the paper, their value was calculated from event rates values and graphs data, and the most conservative value inferred was performed.

Freedom from valve-related mortality after mitral and aortic valve replacement*



Utmost reliability with low thrombogenicity

Thrombogenicity remains to date one of the major concerns related to the implantation of mechanical heart valves. The safety of the Carbomedics valve with respect to thrombogenicity has been extensively proved in published scientific literature and is well recognized by the current European guidelines for heart valve disease management which classify Carbomedics as a Low thrombogenic prosthesis.¹⁰

Carbomedics valves have proven to be safe even at INR ranges well below the recommended target.^{11,12,13}

*All sudden or unknown causes of death were considered valve related in accordance to the Guidelines for reporting morbidity and mortality after cardiac valvular operations.9

- 8. Twenty-Year Experience With the CarboMedics Mechanical Valve Prosthesis. Bouchard et al. Ann Thorac Surg 2014;97:816-23
- Guidelines for reporting morbidity and mortality after cardiac valvular operations. Edmunds et al., Ad Hoc Liaison Committee for Standardizing Definitions of Prosthetic Heart Valve Morbidity of the American Association for Thoracic Surgery and the Society of Thoracic Surgeons.- J Thorac Cardiovasc Surg 1996;112:708–11.
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- 11. Low dose warfarin in patients with Carbomedics heart valves prostheses. RV. Andersen, J. Aagard- Asian Cardiovasc Thorac Ann 2000; 8:11-4
- 12. Is low anticoagulation intensity more beneficial for patients with bileaflet mechanical mitral valves? A meta-analysis. Zhe Xu et al., The Journal of Cardiovascular Surgery 2016 February; 57 (1):90-9)
- 13. Clinical Observation of Postoperative Warfarin Anticoagulation in 300 Patients Undergoing Mitral Valve Replacement with a Carbomedics Mechanical Valve. Wu et al. The Heart Surgery Forum 2015; 18 (2): E063-E066

A unique platform with excellent hemodynamics

One of the key factors influencing the clinical success of a mechanical heart valve prosthesis is its hemodynamic efficiency.

The opening angle and travel arc of the leaflets of the Carbomedics valve have been established by hydrodynamic testing in order to achieve low pressure gradients and an optimal balance between forward flow and regurgitant volume, thus minimizing total energy loss while promoting quiet operation.



Top Hat, top hemodynamic performance

To further optimize hemodynamics, especially in small aortic annuli, LivaNova features in its Carbomedics portfolio the Top Hat prosthesis, a truly totally supra-annular model¹⁴ which provides an advantage of 1 to 2 sizes over intra-annular valves.^{15,16} Top Hat improves effective valve orifice area thanks to a 100% orifice to annulus match, thus contributing to reduce the risk of PPM.¹⁷

"The Top Hat valve minimizes the risk of patient-prosthesis mismatch, improves hemodynamic performance, and thereby reduces morbidity and mortality." 16



100% ORIFICE TO ANNULUS MATCH

CARBOMEDICS° FAMILY

2.80 3.0 Effective Orifice Area 2.5 2.26 27 size 1.95 1.95 2.0 25 size (cm²) 1.44 1.5 23 size 23 size 1.03 1.0 **21** size 0.5 0 19 21 23 Patient Annulus Diameter (mm)

CPHV Intra-annular 19 Top Hat Supra-annular 23 CPHV Intra-annular 24 CPHV Intra-annular 23 CPHV Intra-annular 23 CPHV Intra-annular 24 CPHV Intra-annular 24 CPHV Intra-annular 24 CPHV Intra-annular 25 CPHV Intra-annular 26 CPHV Intra-annular 27 CPHV Intra-annular 28 CPH

CPHV Intra-annular 🗧 Carbomedics Top Hat

*In vitro test - 5I/min 70 bpm (Data on file at Livanova)







Carbomedics hemodynamics at rest and under stress



14. Supra annular model as defined by International Standard for Cardiovascular implants - Cardiac valve Prostheses-Part 2. ISO 5840-2:2015(E)

15. The Carbomedics Supraannular Top hat Valve improves prosthesis size in the Aortic Root. Lundblad R et al.- J Heart Valve Dis 2001;10:196-201

- 16. Maximizing prosthetic valve size with the Top Hat® supraannular aortic valve. Aagard et al.- The Journal of Heart Valve Disease 2007;16:84-90
- 17. Hemodynamic and Clinical Impact of Prosthesis-Patient Mismatch in the Aortic Valve Position and its Prevention. Pibarot P., Dumesnil JG.- J Am Coll Cardiol 2000;36:1131- 41

At rest

- 18. The Carbomedics "Top Hat" Supra-annular prosthesis. Bernal et al.- Ann Thorac Surg. 1999;67:1299-303
- 19. Echocardiographic description of the Carbomedics bileaflet prosthetic heart valve. Chambers et al. JACC 1993; 21(2); 398-405

Under stress

20. Hemodynamic performance of small diameter Carbomedics and St. Jude valves. De Paulis et al.- J Heart Valve Dis 1996;5 (Suppl III):S339-43

Carbomedics *in vitro* data*



Tailored ease of implant

Carbomedics valves are designed for a smooth implant experience

This is why they are considered by many leading cardiac centers the `most accommodating' valve in the world.

Carbomedics sewing cuffs are optimized for ease of implant and good seating. Compared to other valves in the market, the Carbomedics sewing cuff requires much less force for needle penetration facilitating the suturing phase.



Most importantly, the Carbomedics sewing cuff conforms to the tissue rather than forcing the tissue to conform to its shape, thus minimizing the tension on sutures and consequently the risk of dehiscence. This is particularly relevant in fragile or heavily calcified annuli.

A variety of configurations ensures an optimal fit in any anatomical situation.



Tailored solutions for every patient and surgeon's need



Unique options that make the difference

CARBOMEDICS TOP HAT

A truly, totally supra-annular aortic prosthesis for improved hemodynamics.

Top Hat contributes to reduce the risk of PPM especially in small or severely calcified aortic annuli.

It is of particular advantage also in double valve replacement, where a total supra-annular seating helps minimise the risk of interference with the mitral prosthesis.



CARBOMEDICS OPTIFORM

A unique mitral prosthesis with versatile positioning to approach even the most challenging situations.

Thanks to its flexible, generous symmetrical sewing cuff Optiform valve can optimally conform to almost any annulus. Valve placement can be adjusted simply by varying suture entry and exit sites.



Everted Suture Technique



For atrial positioning (supra-annular), needle enters at bottom of cuff and exits at midline



For intra-annular positioning, needle enters at bottom of cuff and exits at top of cuff



For sub-annular positioning, needle enters at midline of cuff and exits at top of cuff

The most complete set of mechanical heart valve solutions in the market

Four different aortic models

	Tas I	
~		
1		>
	CONTRACTOR OF THE OWNER	

Carbomedics Top Hat

Carbomedics Standard

Carbomedics Reduced

Carbomedics Orbis







Three different mitral models

Carbomedics Standard

Carbomedics Optiform





Carbomedics Orbis



Pediatric aortic and mitral valves

Carbomedics Standard Pediatric







Two different conduit models

Carbomedics Carbo-Seal



Carbomedics Carbo-Seal Valsalva



The voice of experience

"We observed that the Carbomedics mechanical prosthesis had excellent durability with no structural failures, good hemodynamics, and a low incidence of TE."

"Our experience demonstrates excellent functional result of the Carbomedics valve in both mitral and aortic positions. Valve-related events were low and often caused by patient-related factors as opposed to the presence of the prosthesis."

"In our experience, structural valve failure with this device is inexistent. The Carbomedics mechanical valve is a solid choice for long-term valvular replacement."

Twenty-Year Experience With the CarboMedics Mechanical Valve Prosthesis. Bouchard et al. - Ann Thorac Surg 2014;97:816-23

LivaNova

Health innovation that matters

CARBOMEDICS® AORTIC MECHANICAL VALVES



- allows for largest valve possible
- increases ease and safety of DVR procedure
- Titanium stiffening ring allows for rotatability in-situ
- Three orientation markers for suture spacing
- Special sizers allow surgeon to assess position of valve within sinus area and clearance of coronaries before implantation

· Size upgrades provide improved

• Totally supra-annular design allows

the largest possible orifice available to

· Alternative to aortic root enlargement

• Titanium stiffening ring minimizes the

· Utmost reliable structural stability Excellent clinical record for valve-

possibility of leaflet lockup or escape

valve hemodynamics

blood flow

related events

- rotatability in-situ
- Orientation markers provide easy visual suture positioning
- Smaller, pliable (Carbomedics Reduced only) sewing cuff allows for improved seating in a smaller annulus or small root
- rotatability in-situ
- · Orientation markers provide easy visual suture positioning
- · Generous sewing cuff conforms to annulus, minimizing perivalvular leaks

Clinical Considerations

- · Alternative to aortic root enlargement where supra-annular valve will not fit in sinus
- Titanium stiffening ring minimizes the possibility of leaflet lockup or escape
- Utmost reliable structural stability
- · Excellent clinical record for valverelated events
- Low implant profile minimizes housing interference with the coronary ostia
- Titanium stiffening ring minimizes the possibility of leaflet lockup or escape
- Utmost reliable structural stability
- · Excellent clinical record for valverelated events







Product specifications

CARBOMEDICS° AORTIC MECHANICAL VALVES

Catalog N. S5-019 S5-021 S5-023 S5-025 S5-027

ARBOMEDICS TOP	HAT						
	Nominal size	Nominal size	TAD	ID	ОН	GOA	EOA
		19	14.7	14.7	6.2	1.59	1.0 ¹
		21	16.7	16.7	6.6	2.07	1.4 ²
		23	18.5	18.5	7.3	2.56	1.9 ²
and the second se	ID = TAD	25	20.5	20.5	7.7	3.16	2.2 ²
		27	22.5	22.5	8.4	3.84	2.9 ²

CARBOMEDICS REDUCED





Nominal size	TAD	ID	ОН	GOA	EOA ¹	Catalog N.
19	18.8	14.7	6.2	1.59	1.0	R5-019
21	20.8	16.7	6.6	2.07	1.5	R5-021
23	22.6	18.5	7.3	2.56	1.6	R5-023
25	25.0	20.5	7.7	3.16	2.0	R5-025
27	27.0	22.5	8.4	3.84	2.4	R5-027
29	29.0	24.2	8.7	4.44	2.6	R5-029

CARBOMEDICS ORBIS





Nominal size	TAD	ID	OH	GOA	EOA ¹	Catalog N.
19	18.8	14.7	6.2	1.59	1.0	A1-019
21	20.8	16.7	6.6	2.07	1.5	A1-021
23	22.6	18.5	7.3	2.56	1.6	A1-023
25	25.0	20.5	7.7	3.16	2.0	A1-025
27	27.0	22.5	8.4	3.84	2.4	A1-027
29	29.0	24.2	8.7	4.44	2.6	A1-029
31	31.0	24.2	8.7	4.44	2.6	A1-031

CARBOMEDICS STANDARD

	/	Nominal size	TAD	ID	ОН	GOA	EOA ¹	Catalog N.
		19	19.8	14.7	6.2	1.59	1.0	A5-019
		21	21.8	16.7	6.6	2.07	1.5	A5-021
	23	23.8	18.5	7.3	2.56	1.6	A5-023	
	Y HH	25	25.8	20.5	7.7	3.16	2.0	A5-025
		27	27.8	22.5	8.4	3.84	2.4	A5-027
		29	29.8	24.2	8.7	4.44	2.6	A5-029
	·	31	31.8	24.2	8.7	4.44	2.6	A5-031

Legend	
TAD = Tissue Annulus Diameter (mm)	OH = Orifice Height (mm)
ID = Internal Diameter (mm)	GOA = Geometric Orifice Area (cm²)
EOA = In vivo Effective Orifice Area (cm²)	

Echocardiographic description of the Carbomedics bileaflet prosthetic heart valve. Chambers et al. - JACC 1993; 21(2); 398-405
 Midterm Evaluation of Hemodynamics of the Top Hat Supraannular Aortic Valve. Aggard et al. - Asian Cardiovasc Thorac Ann 2010;18:1-5



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Health innovation that matters

CARBOMEDICS[®] STANDARD SMALL SIZE MECHANICAL VALVES

CARBOMED SMAI	ICS STANDARD LL SIZES	CAR	ARD	
AORTI Sizes 16	C VALVES and 18 mm	:		
Size 16	Size 18	Size 16	Size 18	Size 21
	Ар	plication		
 Aortic proced Extremely sm. Design allows partially supra placement 	ures all aortic annulus for intra (size 18) or a-annular (size 16)	 Extrem Design placen 		
 Excellent orifica ratio without sa efficacy Sewing cuff ass size for maximu 	Implantation e-to-annulus acrificing safety or embly reduces cuff im orifice area	on Consideration • Sewing size for • Titaniu rotatal • Orient visual s • Excelle withou	cuff assembly reduces r maximum orifice area m stiffening ring allows bility in-situ ation markers provide e suture positioning ent orifice-to-annulus ra t sacrificing safety or ef	cuff asy itio ficacy

- Minimizes repeated replacements in the growing heart
- Fits where other bileaflet valves will not
- Titanium stiffening ring minimizes the possibility of leaflet lockup or escape
- Utmost reliable structural stability

- Minimizes replacements in the growing heart
- Fits where other bileaflet valves will not
- Titanium stiffening ring minimizes the possibility of leaflet lockup or escape
- Utmost reliable structural stability





Product specifications

CARBOMEDICS° STANDARD SMALL SIZE MECHANICAL VALVES

CARBOMEDICS STANDARD SMALL SIZES - AORTIC VALVES

	: //	Nominal size	TAD	ID	ОН	GOA	EOA1	Catalog N.
Size 16		16	16.2	14.7	6.2	1.59	1	A5-016
Size 18		18	18.8	14.7	6.2	1.59	1	A5-018

CARBOMEDICS STANDARD SMALL SIZES - MITRAL VALVES							
		Nominal size	TAD	ID	ОН	GOA	Catalog N.
Size 16		16	16.2	14.7	6.2	1.59	M7-016
Size 18		18	18.8	14.7	6.2	1.59	M7-018
Size 21	OH ID TAD	21	21.8	16.7	6.6	2.07	M7-021

Legend	
TAD = Tissue Annulus Diameter (mm)	OH = Orifice Height (mm)
ID = Internal Diameter (mm)	GOA = Geometric Orifice Area (cm²)
EOA = In vivo Effective Orifice Area (cm²)	

1. Echocardiographic description of the Carbomedics bileaflet prosthetic heart valve. Chambers et al. - JACC 1993; 21(2); 398-405



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CARBOMEDICS® AORTIC MECHANICAL CONDUITS

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Health innovation that matters

CARBOMEDICS CARBO-SEAL CARBOMEDICS CARBO-SEAL VALSALVA **ASCENDING AORTIC PROSTHESIS (AAP) ASCENDING AORTIC PROSTHESIS (AAP)** Sizes 21-29 mm Sizes 21-33 mm Application Disease conditions of the aorta combined with disease Disease conditions of the aorta combined with disease or degeneration of the aortic valve or degeneration of the aortic valve - Ascending aortic aneurys - Ascending aortic aneurys - Ascending aorta dissection - Ascending aorta dissection - Infective aortitis - Infective aortitis - Marfan's Syndrome - Marfan's Syndrome Implantation Consideration Vertical orientation of sinus pleats facilitates coronary Pliable, cork-shaped sewing cuff conforms to annulus, anastomosis minimizing potential perivalvular leaks Graft material resists fraying and quickly seals suture holes, Graft material resists fraying and quickly seals suture holes, minimizing bleeding minimizing bleeding Easier handling and suturing in comparison to bulkier velour · Easier handling and suturing in comparison to bulkier velour materials materials · Ultra-low porosity fabric results in less leakage, weeping and · Ultra-low porosity fabric results in less leakage, weeping and blushing blushing · Pliable, cork-shaped sewing cuff conforms to annulus, · Titanium stiffening ring allows rotatability in-situ minimizing potential perivalvular leaks • Orientation markers provide easy visual suture positioning Titanium stiffening ring allows valve rotatability in-situ · Orientation markers provide easy visual suture positioning Clinical Considerations · Graft is infused with minimally crosslinked gelatin for faster Graft is infused with minimally cross-linked gelatin for faster

- healing, encouraging a secure neo-intimal attachment with reduced inflammatory response
- · Collagen gel hydrolyzes within 14 days
- Sinus of Valsalva replicates the native sinus, reducing required dissection of and stress on the coronary anastomoses
- Sinus design encourages natural formation of systolic vortex
- · Full-sized standard aortic valve provides excellent hemodynamics
- Excellent thromboembolic performance
- Titanium stiffening ring minimizes the possibility of leaflet lockup or escape
- healing, encouraging a secure neo-intimal attachment with reduced inflammatory response
- · Collagen gel hydrolyzes within 14 days
- · Full-sized standard aortic valve provides excellent hemodynamics
- · Excellent thromboembolic performance
- · Titanium stiffening ring minimizes the possibility of leaflet lockup or escape





Product specifications

CARBOMEDICS° AORTIC MECHANICAL CONDUITS

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CARDUNEDICS CARDU-SEAL VALSAL	VA

Ø	

ID	•
TAD	

Ler	ngth of graf	't: 10 cm • S	inus diamet	er: Graft ID	+ 8 mm	
	Nominal size	TAD	ID	GOA	Graft ID	Catalog N.
<	21	21.8	16.7	2.07	24	CP-021
	23	23.8	18.5	2.56	26	CP-023
	25	25.8	20.5	3.16	28	CP-025
	27	27.8	22.5	3.84	30	CP-027
	29	29.8	24.2	4.44	32	CP-029

CARBOMEDICS CARBO-SEAL



ID TAD

Len	Length of graft: 10 cm						
	Nominal size	TAD	ID	GOA	Graft ID	Catalog N.	
	21	21.8	16.7	2.07	24	AP-021	
	23	23.8	18.5	2.56	26	AP-023	
2	25	25.8	20.5	3.16	28	AP-025	
(27	27.8	22.5	3.84	30	AP-027	
	29	29.8	24.2	4.44	32	AP-029	
	31	31.8	24.2	4.44	34	AP-031	
	33	33.8	24.2	4.44	34	AP-033	

Legend

TAD = Tissue Annulus Diameter (mm)

GOA = Geometric Orifice Area (cm²)

ID = Internal Diameter (mm)



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Health innovation that matters

CARBOMEDICS° MITRAL MECHANICAL VALVES

CARBOMEDICS STANDARD	CARBOMEDICS OPTIFORM	CARBOMEDICS ORBIS
MITRAL VALVE Sizes 23-33 mm	MITRAL VALVE Sizes 23-33 mm	MITRAL VALVE Sizes 21-33 mm
 Mitral valve replacement with or without using mitral leaflet preservation procedures Double valve replacement 	cation Mitral valve replacen using mitral leaflet p Heavily calcified ann Mitral redo surgery Double valve replace Endocarditis 	nent with or without reservation procedures ulus ement
 Large, flexible sewing cuff promotes coaptation to annulus Extra large sewing cuff displaces tissue up and away from orifice and leaflets when seating, minimizing the potential for perivalvular leaks Titanium stiffening ring allows rotatability in-situ Orientation markers provide easy visual suture positioning 	Consideration Symmetrical cuff de- placed in a supraam subannular position entry and exit sites Flexible, generous cu difficult patient annu Titanium stiffening ri in-situ Orientation markers suture positioning (Co only)	sign allows valve to be iular, intra-annular or simply by varying suture uff easily conforms to ular anatomy ing allows rotatability provide easy visual carbomedics Optiform
 Low-profile pivot design minimizes protrusion into low-flow atrial area, reducing potential for thrombus formation Titanium stiffening ring minimizes the possibility of leaflet lockup or escape Utmost reliable structural stability Excellent clinical record for valve-related 	 Variable valve placer choose best valve po Titanium stiffening ri possibility of leaflet Utmost reliable struct Excellent clinical rec events 	nent allows surgeon to osition for each patient ing minimizes the lockup or escape ctural stability ord for valve-related

Valve placement *in-situ*



Product specifications

CARBOMEDICS® MITRAL MECHANICAL VALVES

CARBOMEDICS OPTIFORM





Nominal size	TAD	ID	ОН	GOA	Catalog N.
23	22.6	18.5	7.3	2.56	F7-023
25	25.0	20.5	7.7	3.16	F7-025
27	27.0	22.5	8.4	3.84	F7-027
29	29.0	24.2	8.7	4.44	F7-029
31	31.0	24.2	8.7	4.44	F7-031
33	33.0	24.2	8.7	4.44	F7-033

CARBOMEDICS ORBIS





Nominal size	TAD	ID	OH	GOA	Catalog N.
21	20.8	16.7	6.6	2.07	M2-021
23	22.6	18.5	7.3	2.56	M2-023
25	25.0	20.5	7.7	3.16	M2-025
27	27.0	22.5	8.4	3.84	M2-027
29	29.0	24.2	8.7	4.44	M2-029
31	31.0	24.2	8.7	4.44	M2-031
33	33.0	24.2	8.7	4.44	M2-033

CARBOMEDICS STANDARD





Nominal size	TAD	ID	ОН	GOA	Catalog N.
23	23.8	18.5	7.3	2.56	M7-023
25	25.8	20.5	7.7	3.16	M7-025
27	27.8	22.5	8.4	3.84	M7-027
29	29.8	24.2	8.7	4.44	M7-029
31	31.8	24.2	8.7	4.44	M7-031
33	33.8	24.2	8.7	4.44	M7-033

Legend	
TAD = Tissue Annulus Diameter (mm)	OH = Orifice Height (mm)
ID = Internal Diameter (mm)	GOA = Geometric Orifice Area (cm²)

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Health innovation that matters

CARBOMEDICS® ACCESSORIES

Aortic Mechanical Valves

CARBOMEDICS TOP HAT



Article	Code	Description	
Empty tray	TR-101	1 empty tray	
Sizer set	SAS-200	3 sizers 19mm, 21-23mm, 25-27mm	
Rotators set	AR-150	6 aortic rotators	
Valve handle	VH-100	1 universal bendable handle	
Occluder tester	VT-100	10 disposable occluder tester (provided sterile)	Construction of the second sec

CARBOMEDICS REDUCED, ORBIS, STANDARD

Aortic Mechanical Bileaflet Valve

Article	Code	Description	
Empty tray	TR-101	1 empty tray	
Sizer set	VS-200	4 sizers 19-21mm, 23-25mm 27-29mm, 31-33mm	
Rotators set	AR-150	6 aortic rotators	Carlos Ca
Valve handle	VH-100	1 universal bendable handle	
Occluder tester	VT-100	10 disposable occluder tester (provided sterile)	Contraction of Contra

Aortic Mechanical Conduits

CARBOMEDICS CARBO-SEAL VALSALVA, CARBO-SEAL

Aortic Mechanical Conduit



Mitral Mechanical Valve

CARBOMEDICS° ACCESSORIES

CARBOMEDICS OPTIFORM, ORBIS, STANDARD

Mitral Mechanical Bileaflet Valve



Article	Code	Description	
Empty tray	TR-101	1 empty tray	
Sizer set	VS-200	4 sizers 19-21mm, 23-25mm 27-29mm, 31-33mm	
Rotators set	RM-399	6 mitral rotators: 16-18mm, 21mm, 23mm, 25mm, 27mm, 29-31-33mm + 1 bendable handle	*****
Bendable handle	RH-100	1 bendable handle to use with mitral valve rotators	0
Valve handle	VH-100	1 universal bendable handle	
Occluder tester	VT-100	10 disposable occluder tester (provided sterile)	Contraction of Contraction of Contraction

Pediatric Mechanical Valves

CARBOMEDICS STANDARD PEDIATRIC

Aortic Mechanical Bileaflet Valve





Article	Code	Description	
Empty tray	TR-101	1 empty tray	
Sizer	VS2-1618	1 sizer (16-18mm)	E Crimina de
Rotators set	AR-150	6 aortic rotators	
Valve handle	VH-100	1 universal bendable handle	
Occluder tester	VT-100	10 disposable occluder tester	and the second

CARBOMEDICS STANDARD PEDIATRIC

Mitral Mechanical Bileaflet Valve

Article	Code	Description	
Empty tray	TR-101	1 empty tray	
Sizer	VS2-1618	1 sizer (16-18mm)	Castonida 🖉
Sizer set	VS-200	4 sizers 19-21mm, 23-25mm 27-29mm, 31-33mm	
Rotators set	RM-399	6 mitral rotators: 16-18mm, 21mm, 23mm, 25mm, 27mm, 29-31-33mm + 1 bendable handle	*****
Bendable handle	RH-100	1 bendable handle to use with mitral valve rotators	↓
Valve handle	VH-100	1 universal bendable handle	
Occluder tester	VT-100	10 disposable occluder tester (provided sterile)	(Cardination of Cards)

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Manufactured by:

Sorin Group Italia Srl

A wholly-owned subsidiary of LivaNova PLC Via Crescentino - 13040 Saluggia (VC) Italy Tel: +39 0161 487472 - Fax: +39 0161 487316 info.cardiacsurgery@livanova.com

Federal law (USA) restricts this device to sale by or on the order of a physician. Please always refer to the Instructions For Use (IFU) manual provided with each product for detailed information, warnings, precautions and possible adverse side effects.





EC Certificate

EC Type-Examination Certificate Directive 93/42/EEC on Medical Devices (MDD), Annex III (Devices in class IIb or III)

No. G5 17 09 01664 011

Manufacturer:

SORIN GROUP ITALIA S.r.I.

Via Crescentino sn 13040 Saluggia (VC) ITALY

Product:

Heart Valves Sorin Mechanical Heart Valves

The Certification Body of TÜV SÜD Product Service GmbH declares that a type examination has been carried out on the respective device type in accordance with MDD Annex III (4). This representative sample for the envisaged production conforms to the requirements of this Directive. For marketing of class III devices an additional Annex IV or V certificate is mandatory. For marketing of class IIb devices an additional Annex IV, V or VI certificate is mandatory. See also notes overleaf.

Report no.:

713114103

Valid from: Valid until: 2017-10-17 2021-12-19



Date, 2017-10-16

Stefan Preiß

1. Pumil

TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123

Page 1 of 2

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EC Certificate EC Type-Examination Certificate Directive 93/42/EEC on Medical Devices (MDD), Annex III (Devices in class IIb or III) No. G5 17 09 01664 011

Model(s):

Bicarbon Fitline Bicarbon Slimline Bicarbon Overline

Parameters:

Model Name Bicarbon Fitline LFA Aortic

Bicarbon Fitline LFM Mitral

Bicarbon Slimline

LSA Aortic

Bicarbon Overline

Aortic

Product codes

ICV0917/ART19LFA ICV0918/ART21LFA ICV0919/ART23LFA ICV0920/ART25LFA ICV0921/ART27LFA ICV0922/ART29LFA ICV0923/ART31LFA

ICV0924/MTR19LFM ICV0925/MTR21LFM ICV0926/MTR23LFM ICV0927/MTR25LFM ICV0928/MTR27LFM ICV0929/MTR29LFM ICV0930/MTR31LFM ICV0931/MTR33LFM

ICV0934/ART17LSA ICV0935/ART19LSA ICV0936/ART21LSA ICV0937/ART23LSA ICV0938ART25LSA ICV0939/ART27LSA

ICV0870/ART16LOV ICV0871/ART18LOV ICV0872/ART20LOV ICV0873/ART22LOV ICV0874/ART24LOV

Facility(ies):

SORIN GROUP ITALIA S.r.l. Via Crescentino sn, 13040 Saluggia (VC), ITALY

Page 2 of 2

A1 / 04.







Certificate No. Q5 057574 0067 Rev. 03

Holder of Certificate:

Sorin Group Italia S.r.l.

Via Statale 12 Nord, 86 41037 Mirandola MO ITALY

Certification Mark:



Scope of Certificate:

Design and development, production and distribution of non active blood recovery, cell separation, blood monitoring disposables as well as oxygenators, cannulae, catheters, filters, reservoirs, cardioplegia, centrifugal pumps and customized tubing sets for cardiac surgery, autotransfusion and extracorporeal life support applications.

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:Q5 057574 0067 Rev. 03

Report No.:

ITA1672710

Valid from: Valid until: 2021-05-15 2024-05-14

Christoph Dicks Head of Certification/Notified Body

Date, 2021-04-29

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Certificate

No. Q5 057574 0067 Rev. 03

Applied Standard(s): EN ISO 13485:2016 Medical devices - Quality management systems -Requirements for regulatory purposes (ISO 13485:2016) DIN EN ISO 13485:2016

 Facility(ies):
 Sorin Group Italia S.r.l.

 Via Statale 12 Nord, 86, 41037 Mirandola MO, ITALY

Design and development, production, sterilization and distribution of non active blood recovery, cell separation, blood monitoring disposables as well as oxygenators, cannulae, catheters, filters, reservoirs, cardioplegia, centrifugal pumps and customized tubing sets for cardiac surgery, autotransfusion and extracorporeal life support applications.

Sorin Group Italia S.r.l. Via Leonardo da Vinci 12, 41036 Medolla MO, ITALY

Production of disposables for cardiac surgery and extracorporeal life support applications.





Techniques In Vascular Surgery



Application Technique



Abdominal Aortic Aneurysm

- Clamp and depressurize vessels prior to BioGlue application
- Dry the target site to ensure optimal adherence of BioGlue to the target tissue
- Prime the applicator tip and apply a thin layer of BioGlue that extends 1cm in either direction of the suture line
- Wait 2 minutes for BioGlue to completely polymerize before pressurizing the anastomosis
- Complete all remaining anastomoses, and again apply a thin layer of BioGlue to prevent suture line bleeding
- Wait 2 minutes before re-establishing systemic blood flow



Apply a thin layer of BioGlue to prevent suture line bleeding

Peripheral Bypass / AV Access

- Clamp and depressurize vessels prior to BioGlue application
- Dry the target site to ensure optimal adherence of BioGlue to the target tissue
- Prime the applicator tip and apply a thin layer of BioGlue directly onto the suture line
- Wait 2 minutes for BioGlue to completely polymerize before pressurizing the anastomosis
- Complete the final anastomosis, and again apply a thin layer of BioGlue to prevent suture line bleeding
- Wait 2 minutes before re-establishing systemic blood flow

es in Vascular Surgery



Carotid Endarterectomy

- Once the graft has been sewn into place, carefully pack gauze around the target area to prevent BioGlue from running into unwanted areas
- Clamp and depressurize vessels prior to BioGlue application
- Dry the target site to ensure optimal adherence of BioGlue to the target tissue
- Prime the applicator tip and apply a thin layer of BioGlue directly onto the suture line around the patch
- Wait 2 minutes for BioGlue to completely polymerize before re-establishing systemic blood flow

Key Application Techniques

- 1. Dry the target site to ensure optimal adherence of BioGlue to target tissue
- 2. Clamp and depressurize vessels prior to applying BioGlue to targeted anastomoses
- 3. Prime the applicator tip to ensure proper mixing of the components
- 4. Switch from Cell Saver® to wall suction to prevent BioGlue from entering the pump system
- 5. Apply a thin layer of BioGlue directly onto the suture line to prevent suture line bleeding
- 6. Wait 2 minutes before pressurizing the anastomoses to allow for full BioGlue polymerization

BioGlue Surgical Adhesive... Ideal for Vascular Surgery

- Reinforces Friable Tissue
- Seals Needle Holes
- Clinically Proven in more than 500,000 procedures worldwide



BioGlue Syringe Delivery System

Catalogue Number	Product	Contains
BG3510-5-G	Syringe 10mL 5-Pack Kit	Five single packs – Each contains one 10mL syringe and syringe plunger, four standard syringe tips, and three 12mm spreader tips
BG3515-5-G	Syringe 5mL 5-Pack Kit	Five single packs – Each contains one 5mL syringe and syringe plunger, and four standard syringe tips
BG3502-5-G	Syringe 2mL 5-Pack Kit	Five single packs – Each contains one 2mL syringe and syringe plunger, and four standard syringe tips
BG3500N	Syringe Delivery Device	One single pack – Contains one non-sterile reusable syringe delivery device
BGAT-SY	Syringe Applicator Tip	Ten single packs – Each contains four standard syringe tips
BGAT-10-SY	Syringe 10cm Applicator Tip	Ten single packs – Each contains four 10cm syringe tips
BGAT-27-SY	Syringe 27cm Applicator Tip	Ten single packs – Each contains four 27cm syringe tips
BGST-12	Syringe 12mm Spreader Tip	Ten single packs – Each contains three 12mm spreader tips
BGST-16	Syringe 16mm Spreader Tip	Ten single packs – Each contains three 16mm spreader tips



BioGlue[®] Surgical Adhesive CE MARKED

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INDICATIONS FOR USE: BioGlue Surgical Adhesive is indicated for use as an adjunct to standard methods of surgical repair (such as sutures, staples, electrocautery, and/or patches) to bond, seal, and/or reinforce soft tissue. BioGlue may also be applied alone to seal and/or reinforce damaged parenchyma when other ligature or conventional procedures are ineffective or impractical. Indicated soft tissues are cardiac, vascular, pulmonary, genitourinary, dural, alimentary (esophageal, gastrointestinal, and colorectal), and other abdominal (pancreatic, splenic, hepatic and biliary). Additionally, BioGlue is used in the fixation of surgical meshes in hernia repair.

ML0377.000 (04/2010) Bramley House • The Guildway • Old Portsmouth Road • Guildford, Surrey GU3 1LR • United Kingdom • Tel: +44 (0) 1483 441030 • Fax: +44 (0) 1483 452860 • www.cryolife.com All trademarks are owned by CryoLife. © 2010 CryoLife, Inc. All rights reserved.



EC DESIGN EXAMINATION CERTIFICATE

This is to certify that Lloyd's Register Quality Assurance, a Notified Body under the terms of:

the Medical Devices Directive 93/42/EEC;

the Medical Devices Regulations 2002, UK Statutory Instrument 2002 No. 618;

did (in accordance with Annex II clause 4 of the Directive) undertake an EC Design Examination on the stated products to ensure their conformity with the requirements of the Directive which apply to them. The products identified below were shown to comply.

This certificate is issued to:

MANUFACTURER:	CryoLife, Inc.
	1655 Roberts Boulevard, NW, Kennesaw, Georgia 30144, United States
PRODUCT NAME:	BioGlue© Surgical Adhesive
PRODUCT DESCRIPTION:	BioGlue Surgical Adhesive is indicated for use as an adjunct to standard methods of surgical repair (such as sutures, staples. electrocautery, and/or patches) to bond, seal, and/or reinforce soft tissue.

DESIGN DOSSIER REFERENCE: document #TF00007.003, revision 003, dated 31 May 2017

This Certificate is not valid for products, the design or characteristics of which have been varied from those examined. The manufacturer shall notify LRQA of any modification or changes to the products in order to maintain a valid certificate.

Certificate No: 0088/094334/00050 Current Certificate: 1 December 2017 Expiry Date: 30 November 2022 Certificate Identity Number: 10039484 LRQA Notified Body Number: 0088 Original Approvals: 25 November 1997

Approval Certificate Number: MDD – 0015237

Chris Koci Issued By: Lloyd's Register Quality Assurance Ltd



Certificate Identity Number: 10039484

CryoLife, Inc.

1655 Roberts Boulevard, NW, Kennesaw, Georgia 30144, United States

LRQA hereby confirms that the change(s) detailed below have been reviewed in conjunction with the approved Design Dossier and the EC Design Examination remains valid.

This supplement is only valid in association with the EC Design Examination certificate detailed above.

Supplement Number:	Supplement Date:	Details of amendment:	
0	21 November 2017	Renewal under jobs 1222716 & 1223002	

Certificate No: 0088/094334/00050 Current Certificate: 1 December 2017 Expiry Date: 30 November 2022 Certificate Identity Number: 10039484 LRQA Notified Body Number: 0088 Original Approvals: 25 November 1997

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Chris Koci Issued By: Lloyd's Register Quality Assurance Ltd