Biotronix®
Healthcare

Sutures

www.biotronixhealthcare.com

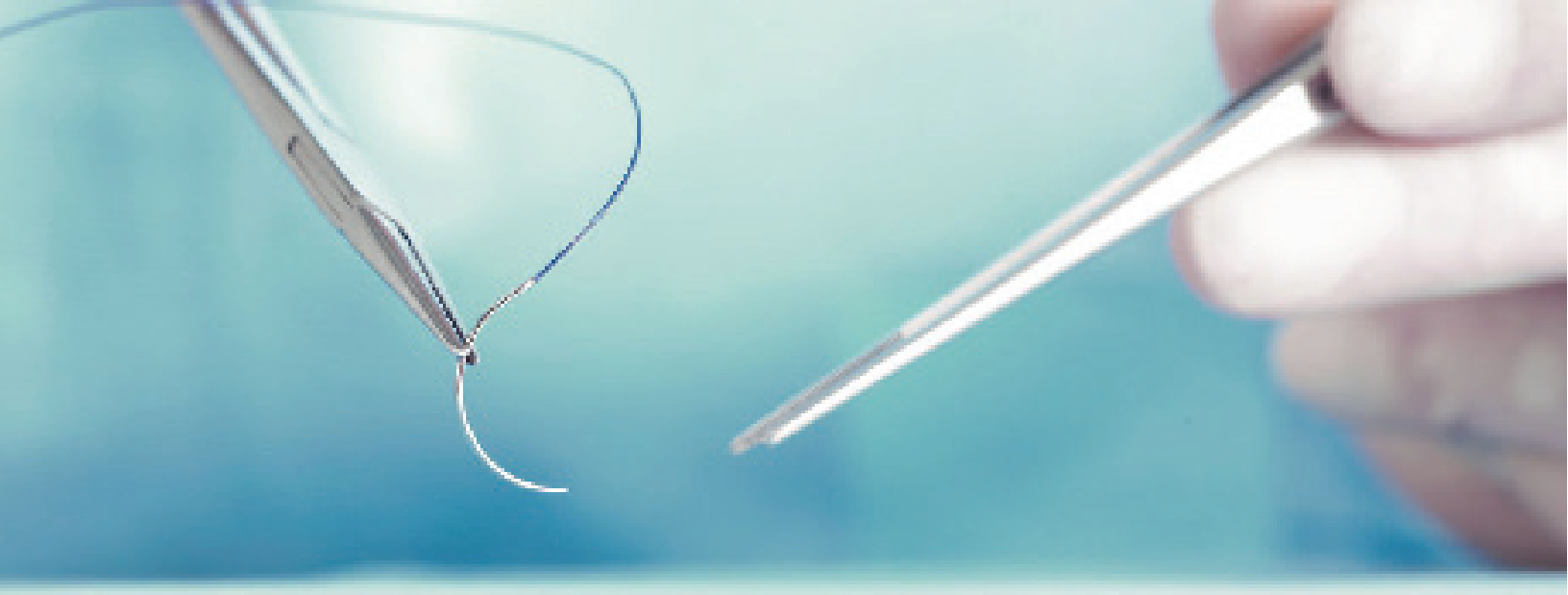


TABLE OF CONTENTS

ABOUT US 4

TECHNICAL INFORMATION 5

POLYGLYCOLIC ACID 11

RAPID POLYGLYCOLIC ACID 21

POLYDIOXANONE 25

POLYGLACTINE 910 34

POLIGLECAPRONE 25 36

SILK 41

NYLON 53

POLYESTER 66

POLYPROPYLENE 75

CATGUT PLAIN 86

CATGUT CHROMIC 89

WELCOME TO BIOTRONIX HEALTHCARE
YOUR HEALTHCARE SOLUTIONS PARTNER

Biotronix Healthcare Industries Inc is a world leader in surgical sutures. Biotronix Healthcare works closely with suppliers, physicians, hospitals and healthcare professionals to bring to the market high quality, innovative medical devices, with an enhanced customer service experience.

1WT EQTRQTCVG JGCFSWCTVGTU CTG NQECVGF KP /KUUKUUC
North America, Latin America, Middle East and South East Asia.

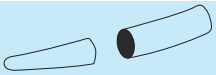
Biotronix Healthcare provides absorbable and non-absorbable sutures with outstanding quality using new generation technology to meet our customer's strict demands. Due to our high quality and excellent customer service our customer base has spread out all over the world.

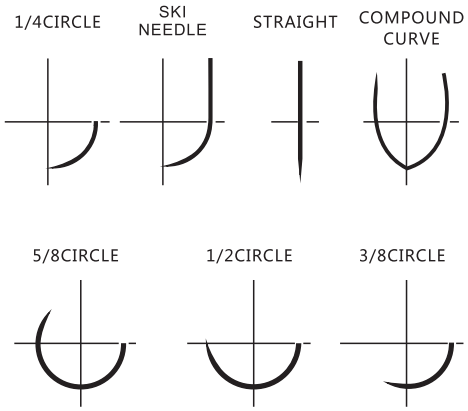
Biotronix Healthcare collaborates with suppliers that provide a high level of quality, service and innovation to meet our needs. We follow strict manufacturing processes, quality managements systems and international standards that comply with EP and USP. So come and joins us at Biotronix Healthcare and become one of our Distribution Partners in your region.

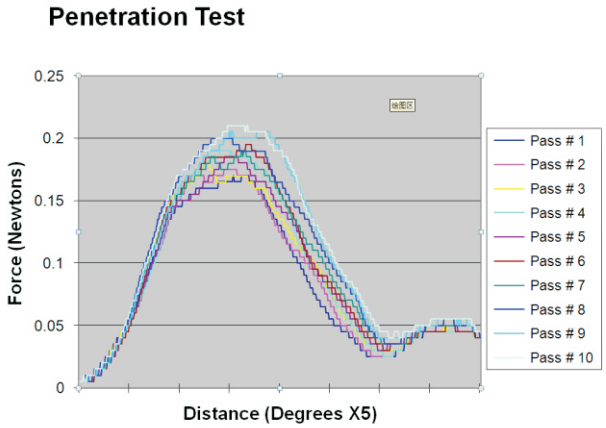
Biotronix Healthcare suture needles are manufactured using high grade AISI420 or AISI302 stainless steel alloy. They are sharp enough to penetrate tissue with minimal resistance and minimal tissue trauma. The optimized precision geometric tips offer outstanding penetration performance with excellent strength and ductility. Biotronix Healthcare suture needles are sterile and corrosion resistant to prevent the introduction of any foreign bodies or microorganisms into the wound.

We provide a vast array of sizes from 6mm to 90mm and types from 1/4 circle, 1/2 circle, 3/8 circle, 5/8 circle, straight, compound curves and ski. Contact your sales representative for additional information.

BIOTRONIX HEALTHCARE Type and Tip Geometrics

		Code	Tip Geometry	Needld Cross-section
Taper Point/Round Body		TA		
Cutting	Conventional Cutting	CU		
	Reverse Cutting	RC		
Extra-Sharp Cutting		P		
Blunt		BL		
Taper Cut		TC		
Spatula		SP		





BIOTRONIX HEALTHCARE Penetration Level

Needle	Penentration Force（N）	
Wire Diameter（mm）	Taper Point	Reverse Cutting
0.43	0.20-0.25	0.17-0.20
0.52	0.20-0.27	0.20-0.25
0.56	0.25-0.30	0.20-0.25
0.60	0.27-0.30	0.22-0.26
0.66	0.27-0.30	0.22-0.26
0.70	0.27-0.30	0.22-0.26
0.80	0.30-0.35	0.25-0.30
0.86	0.30-0.35	0.30-0.35
0.90	0.30-0.35	0.30-0.35
1.00	0.35-0.40	0.30-0.38
1.10	0.37-0.45	0.33-0.38
1.27	0.45-0.50	0.35-0.40

BIOTRONIX HEALTHCARE Suture Size

USP	EP(Metric)	Diameter(mm)
10-0	0.2	0.020-0.029
9-0	0.3	0.030-0.039
8-0	0.4	0.040-0.049
7-0	0.5	0.050-0.069
6-0	0.7	0.070-0.099
5-0	1	0.100-0.149
4-0	1.5	0.150-0.199
3-0	2	0.200-0.249
	2.5	0.250-0.299
2-0	3	0.300-0.349
0	3.5	0.350-0.399
1	4	0.400-0.499
2	5	0.500-0.599

Tensile Strength

※Data Sources:YY-1116-2002

	Class 1			Class 2	
	Average Value		Minimum Value	Minimum Value	
Size	N	KGF	N	N	KGF
10-0	—	—	—	0.25	0.025
9-0	—	—	—	0.49	0.050
8-0	0.44	0.045	0.25	0.69	0.070
7-0	0.69	0.070	0.54	1.37	0.140
6-0	1.76	0.180	0.98	2.45	0.250
5-0	3.72	0.380	1.96	6.66	0.680
4-0	7.54	0.769	3.92	9.31	0.950
3-0	12.25	1.250	6.66	17.35	1.770
2-0	19.60	2.000	10.19	26.26	2.680
1-0	27.14	2.769	14.21	38.22	3.900
1	37.24	3.800	19.10	49.78	5.080
2	44.20	4.510	23.52	62.23	6.350

Strength of Needle Attachment

※Data Sources:YY-1116-2002

	Average Value		Minimum Value
Size	N	KGF	N
10-0	0.1	0.014	0.10
9-0	0.2	0.021	0.15
8-0	0.5	0.050	0.24
7-0	0.8	0.080	0.39
6-0	1.7	0.170	0.78
5-0	2.3	0.230	1.08
4-0	4.4	0.450	2.25
3-0	6.7	0.680	3.33
2-0	10.8	1.102	4.41
1-0	14.7	1.500	4.41
1	17.6	1.796	5.88
2	17.6	1.796	6.86

Absorbable

Brand Name	Material	Structure	Range of Size (USP)	Color	Tensile strength retention-days	Application	FDA
BIOTRONIX PGA	100% Polyglycolic Acid	Braided	USP #2-USP 10/0	Violet or Undyed	14 days post implantation 60-70% 18 days post implantation 50% 21 days post implantation 40%	General surgery, Gastroenterology, Urology,Plastic, Subcutaneous and intracutaneous closure, Gynaecology, Ophthalmic, Paediatric surgery and Ligatures	Yes
BIOTRONIX PGLA	Poly (glycolide-co-lactide) (90/10)	Braided	USP #2-USP 8/0	Violet (D&C violet No.2)	14days post implantation 75% 21days post implantation 50%	General surgery, Gastroenterology, Urology, Plastic, Subcutaneous and intracutaneous closure, Gynaecology, Odontology, Paediatric surgery, Ophthalmology, Ligatures	Yes
BIOTRONIX PDO	Polydioxanone	Monofilament	USP #2-USP 7/0	Violet (D&C No.2) or Undyed	28days post implantation 50% (≤USP4/0 – Metric 1.5) 35days post implantation 50% (≥USP3/0 – Metric 2)	General soft tissue approximation, specially in cases where an extended wound support of more than 4 weeks is desirable, pediatric cardiovascular surgery and for the suturing of autologous peripheral vessels	Yes
BIOTRONIX PGCL	Poly (glycolideco-caprolactone) (PGA-PCL)	Monofilament	USP #2-USP 6/0	Undyed or Violet (D&C no.2)	1 week post implantation 60%~80%	Subcutaneous and intracutaneous closure, Gynaecology, Odontology, Paediatric surgery, Ophthalmology, Ligatures	Yes
BIOTRONIX CATGUT	Plain Catgut	Twisted (Natural)	USP #2-USP 6/0	Yellow	7-10days	General, soft tissue approximation and/or ligation, Ophthalmic procedures, but not for use in cardiovascular and neurological procedures	Yes
	Chromic Catgut	Braided	USP #2-USP 6/0	Brown	21-28days		

Non-absorbable sutures

Brand Name	Material	Structure	Range of Size (USP)	Color	Tensile strength retention-days	Application	FDA
BIOTRONIX POLYPROPYLENE	Polypropylene	Monofilament	USP #2-USP 10/0	Blue	No loss of tensile strength	Vascular and Cardiovascular surgery, Skin Closure, Plastic surgery, Ophthalmology, Neurosurgery	Yes
BIOTRONIX NYLON	Polyamide 6 and 6.6	Monofilament	USP #2-USP 6/0	Blue/ Black	15-20% per year	Skin and Plastic Surgery, Micro-vascular surgery, Ophthalmology, Orthopaedics	Yes
BIOTRONIX Braided Nylon	Polyamide 6 and 6.6	Braided	USP #2-USP 10/0	Black (logwood)/ Blue(FD&C Blue No.2/ White (Undyed)	15-20% per year	Skin and Plastic Surgery, Micro-vascular surgery, Ophthalmology, Orthopaedics	Yes
BIOTRONIX POLYESTER	Polyethylene terephthalate	Braided	USP #5-USP 7/0	Green or White	Long Period	Skin Closure, Cardiovascular surgery, Vascular surgery, Ophthalmology, Orthopaedics, Gastrointestinal surgery, Neurosurgery	Yes
BIOTRONIX SILK	Natural Silk	Braided, Twisted	USP #6-USP 8/0 (Braided Silk) USP 8/0-USP 9/0 (Twisted Silk)	Black (Braided Silk) Blue (Twisted Silk)	Two Years	General surgery, Skin Closure, Oral surgery, Neurosurgery, Ligatures (Braided Silk)	Yes
BIOTRONIX PTFE	100% high-density poly-tetrafluoroe-thylene (PTFE) polymer	Monofilament	USP 2/0-USP 6/0	Undyed	Long Period	All types of soft tissue approximation and/or ligation, including cardiovascular, dental and general surgeries	Yes

Product Code Guide

THREAD TYPE	
POLYGLYCOLIC ACID	B
RAPID POLYGLYCOLIC ACID	I
POLYDIOXANONE	O
PLAIN CATGUT	T
POLYGLACTINE 910	R
POLIGLECAPRONE 25	L
POLYPROPYLENE	N
POLYESTER BRAIDED	M
SILK BRAIDED	X
NYLON	V
NYLON BRAIDED	A
STEEL WIRE	C
CATGUT CHROMIC	E
VEROLON	F

COLOR	
CLEAR	C
UNDYED	U
WHITE	W

THREAD LENGTH	
10CM	0
15CM	1
30CM	2
45CM	3
50CM	4
60CM	5
70CM	6
75CM	7
90CM	8
120CM	10
125CM	9
130CM	11
150CM	A
180CM	G
200CM	I
240CM	H
45M	B
50M	C
75M	D
100M	E
150M	F

THREAD DIAMETER	
10-0	A
9-0	9
8-0	8
7-0	7
6-0	6
5-0	5
4-0	4
3-0	3
2-0	2
1-0	1
0	0
1	B
2	C
3	D
4	E
5	F

NEEDLE LENGTH	
4MM	4
5MM	5
6MM	6
6.5MM	6.5
7MM	7
8MM	8
9MM	9
10MM	10
11MM	11
12MM	12
13MM	13
15MM	15
16MM	16
17MM	17
18MM	18
19MM	19
20MM	20
22MM	22
24MM	24
26MM	26
27MM	27
28MM	28
30MM	30
31MM	31
35MM	35
36MM	36
37MM	37
40MM	40
42MM	42
45MM	45
48MM	48
50MM	50
60MM	60
70MM	70
90MM	90

NEEDLE CURVATURE	
STRAIGHT	A
1/2 CIRCLE	B
1/2 CIRCLE DOUBLE	C
1/4 CIRCLE	D
1/4 CIRCLE DOUBLE	E
3/8 CIRCLE	F
3/8 CIRCLE DOUBLE	G
5/8 CIRCLE	H
5/8 CIRCLE DOUBLE	M
SKI NEEDLE	I
COMPOUND CURVE	J
NO NEEDLE	N
DOUBLE NEEDLE	DN
# STRANDS	#

NEEDLE CROSS SECTION	
BLUNT	1
BLUNT HEAVY	2
CUTTING	3
CUTTING HEAVY	3*
PREMIUM CUTTING	4
REVERSE CUTTING	5
REVERSE CUTTING HEAVY	5*
PREMIUM REVERSE CUTTIN	6
TAPER POINT	7
PREMIUM TAPER POINT	7*
TAPER POINT HEAVY	A
TAPER CUT	8
TAPER CUT HEAVY	B
DIAMOND	9
SPATULA	S
MICROPOINT	P
SPATULA LOOP	SL
LOOP	L

PACKAGING:	ADD "-A" , "-B" OR "-C AT THE END OF THE CODE
36 PER BOX	- A
24 PER BOX	- B
12 PER BOX	- C

EXAMPLE: POLYGLACTINE 910, UNDYED, 3-0 (75CM LENGTH), W/ 1/2" CIRCLE TAPER POINT NEEDLE 31MM LENGTH, SINGLE ARMED, 12 PER BOX

PRODUCT CODE: RU7331B7-C

THREAD TYPE	COLOR	THREAD LENGTH	THREAD DIAMETER	NEEDLE LENGTH	NEEDLE CURVATURE	NEEDLE CROSS REFEREN	PACAKGING
R	U	7	3	31	B	7	- C

NOTE: Other needle sizes, tips and thread lengths are available upon request

WEGO-PGA DATA SHEET

Structure	Multifilament,braided
Chemical composition	100%polyglycolic acid
Coating	Polycaprolactone + Calcium Stearate
Color	Violet or Undyed
Sizes	USP 2-USP 10/0 metric 5 - metric 0.2
Knot tensile strength Retention	14 days post implantation 60-70%
	18 days post implantation 50%
	21 days post implantation 40%
Mass absorption	Degradation by hydrolysis within 60-90 days
Indications	General surgery, Gastroenterology, Urology, Plastic,
	Subcutaneous and intracutaneous closure,Gynaecology,
	Ophthalmic, Paediatric surgery and Ligatures
Sterilization	Ethylene oxide

Polyglycolic Acid

			8-0	7-0	6-0	5-0	4-0	3-0	2-0
	7mm 1/2 Spatula	30cm 45cm	B287BS B387BS	B277BS B377BS					
	7mm 3/8 Spatula	30cm	B287FS	B277FS					
	9mm 3/8 Taper	30cm	B289F7	B279F7					
	10mm 5/8 Taper-cut	30cm			B2610H8	B2510H8			
	12mm 1/2 Reverse Cutting	75cm			B7612B5	B7512B5			
	12mm 3/8 Reverse Cutting	45cm				B3512F5			
	12mm 1/2 Cutting	45cm 75cm			B3612B3 B7612B3	B3512B3 B7512B3			
	12mm 3/8 Cutting	45cm 75cm			B3612F3 B7612F3	B3512F3 B7512F3			
	12mm 3/8 Premium Cutting	45cm			B3612F4	B3512F4			
	12mm 1/2 Taper-cut	45cm			B3612B8				
	13mm 1/2 Taper	75cm			B7613B7	B7513B7	B7413B7		
	13mm 3/8 Taper	45cm 60cm			B3613F7 B5613F7	B3513F7 B5513F7	B3413F7 B5413F7		
	16mm 1/2 Taper	75cm			B7616B7	B7516B7	B7416B7	B7316B7	B7216B7
	16mm 3/8 Taper	45cm 75cm			B3616F7 B7616F7	B3516F7 B7516F7	B3416F7 B7416F7	B3316F7 B7316F7	
	16mm 5/8 Taper	75cm				B7516H7	B7416H7	B7316H7	
	16mm 1/2 Reverse Cutting	75cm				B7516B5	B7416B5	B7316B5	
	16mm 3/8 Reverse Cutting	45cm 75cm				B3516F5 B7516F5	B3416F5 B7416F5	B3316F5 B7316F5	
	16mm 1/2 Cutting	45cm 75cm				B3516B3 B7516B3	B3416B3 B7416B3	B3316B3 B7316B3	
	16mm 3/8 Cutting	45cm 75cm				B3516F3 B7516F3	B3416F3 B7416F3	B3316F3 B7316F3	
	16mm 3/8 Premium Cutting	45cm				B3516F4	B3416F4	B3316F4	
	16mm 1/2 Taper-cut	75cm			B7616B8	B7516B8			
	16mm 5/8 Taper-cut	75cm				B7516H8	B7416H8	B7316H8	
	19mm 1/2 Taper	45cm 75cm				B3519B7 B7519B7	B3419B7 B7419B7	B3319B7 B7319B7	
	19mm 3/8 Taper	45cm 75cm					B3419F7 B7419F7	B3319F7 B7319F7	

Polyglycolic Acid

			5-0	4-0	3-0	2-0	0	#1	#2
	19mm 1/2 Reverse Cutting	45cm 75cm		B3419B5 B7419B5	B3319B5 B7319B5	B3219B5 B7219B5			
	19mm 3/8 Reverse Cutting	45cm 75cm		B3419F5 B7419F5	B3319F5 B7319F5	B3219F5 B7219F5			
	19mm 1/2 Cutting	45cm 75cm		B3419B3 B7419B3	B3319B3 B7319B3	B3219B3 B7219B3			
	19mm 3/8 Cutting	45cm 75cm		B3419F3 B7419F3	B3319F3 B7319F3	B3219F3 B7219F3			
	19mm 3/8 Premium Cutting	45cm 75cm		B3419F4 B7419F4	B3319F4 B7319F4	B3219F4 B7219F4			
	19mm 1/2 Taper-cut	75cm			B7319B8				
	22mm 1/2 Taper	60cm 75cm		B5422B7 B7422B7	B5322B7 B7322B7	B5222B7 B7222B7	B5022B7 B7022B7		
	22mm 3/8 Taper	75cm	B7522F7	B7422F7	B7322F7	B7222F7	B7022F7		
	22mm 1/2 Reverse Cutting	75cm		B7422B5	B7322B5	B7222B5	B7022B5		
	22mm 3/8 Reverse Cutting	60cm 75cm		B5422F5 B7422F5	B5322F5 B7322F5				
	22mm 1/2 Cutting	45cm 75cm		B3422B3 B7322B3	B3322B3 B7322B3	B3222B3 B7222B3	B3022B3 B7022B3		
	22mm 3/8 Cutting	45cm 75cm		B3422F3 B7422F3	B3322F3 B7322F3	B3222F3 B7222F3	B3022F3 B7022F3		
	22mm 1/2 Premium Cutting	75cm		B7422B4	B7322B4				
	22mm 1/2 Taper-cut	75cm	B7522B8	B7422B8	B7322B8	B7222B8	B7022B8		
	24mm 1/2 Reverse Cutting	75cm			B7324B5	B7224B5			
	24mm 3/8 Reverse Cutting	75cm		B7424F5	B7324F5	B7224F5			
	26mm 1/2 Taper	75cm 90cm		B7426B7 B8426B7	B7326B7 B8326B7	B7226B7 B8226B7		B7B26B7 B8B26B7	
	26mm 5/8 Taper	75cm		B7426H7	B7326H7	B7226H7	B7026H7		
	26mm 1/2 Taper Heavy	75cm 90cm			B7326BA B8326BA	B7226BA B8226BA	B7026BA B8026BA	B7B26BA B8B26BA	
	26mm 1/2 Reverse Cutting	45cm 75cm		B3426B5 B7426B5	B3326B5 B7326B5	B3226B5 B7226B5	B3026B5 B7026B5		
	26mm 3/8 Reverse Cutting	45cm 75cm		B3426F5 B7426F5	B3326F5 B7326F5	B3226F5 B7226F5	B3026F5 B7026F5		
	26mm 1/2 Cutting	45cm 75cm		B3426B3 B7426B3	B3326B3 B7326B3	B3226B3 B7226B3	B3026B3 B7026B3		
	26mm 3/8 Cutting	45cm 75cm		B3426F3 B7426F3	B3326F3 B7326F3	B3226F3 B7226F3	B3026F3 B7026F3		
	26mm 5/8 Cutting	75cm			B7326H3	B7226H3	B7026H3		

Polyglycolic Acid

			4-0	3-0	2-0	0	#1	#2
	26mm 1/2 Taper-cut	75cm	B7426B8	B7326B8	B7226B8	B7026B8	B7B26B8	
	26mm 1/2 Taper-cut Heavy	90cm					B8B26BB	
	30mm 1/2 Taper	75cm 90cm		B7330B7 B8330B7	B7230B7 B8230B7	B7030B7 B8020B7		
	30mm 3/8 Taper	75cm		B7330F7	B7230F7	B7030F7		
	30mm 1/2 Blunt Point	75cm		B7330B1	B7230B1	B7030B1		
	30mm 3/8 Reverse Cutting	75cm		B7330F5	B7230F5	B7030F5	B7B30F5	
	30mm 3/8 Cutting	75cm		B7330F3	B7230F3	B7030F3		
	30mm 1/2 Taper-cut	75cm		B7330B8	B7230B8	B7030B8	B7B30B8	
	36mm 1/2 Taper	75cm 90cm		B7336B7 B8336B7	B7236B7 B8236B7	B7036B7 B8036B7	B7B36B7 B7B36B7	
	36mm 5/8 Taper	75cm		B7336H7	B7236H7	B7036H7	B7B36H7	

Polyglycolic Acid

			3-0	2-0	0	#1	#2
	36mm 1/2 Taper Heavy	90cm				B8B36BA	B8C36BA
	36mm 1/2 Blunt Point Heavy	75cm 90cm	B7336B2 B8336B2	B7236B2 B8236B2	B7036B2 B8036B2	B7B36B2 B8B36B2	
	36mm 3/8 Reverse Cutting	75cm	B7336F5	B7236F5	B7036F5		
	36mm 3/8 Cutting	75cm	B7336F3	B7236F3	B7036F3	B7B36F3	
	36mm 1/2 Taper-cut	75cm 90cm	B7336B8 B8336B8	B7236B8 B8236B8	B7036B8 B8036B8	B7B36B8 B8B36B8	
	38mm 1/2 Taper	75cm 90cm	B7338B7 B8338B7	B7238B7 B8238B7	B7038B7 B8038B7		
	38mm 5/8 Taper	75cm		B7238H7			

Polyglycolic Acid

			3-0	2-0	0	#1	#2
	38mm 1/2 Taper-cut	75cm 90cm		B7238B8 B8238B8	B7038B8 B8038B8		
	40mm 1/2 Taper	75cm 90cm	B7340B7 B8340B7	B7240B7 B8240B7	B7040B7 B8040B7	B7B40B7 B8B40B7	B7C40B7 B8C40B7
	40mm 1/2 Taper Heavy	75cm 90cm	B7340BA B8340BA	B7240BA B8240BA	B7040BA B8040BA	B7B40BA B8B40BA	B7C40BA B8C40BA
	40mm 1/2 Blunt point Heavy	90cm		B8240B2	B8040B2	B8B40B2	B8C40B2
	40mm 3/8 Reverse Cutting	75cm		B7240F5	B7040F5	B7B40F5	
	40mm 3/8 Premium Cutting	75cm		B7240F4	B7040F4	B7B40F4	

Polyglycolic Acid

			3-0	2-0	0	#1	#2
	65mm 3/8 Blunt Point	90cm			B8065F1	B8B65F1	B8C65F1

Polyglycolic Acid Double Needle

			8-0	7-0	6-0	5-0	4-0	3-0	2-0
	6mm 1/2 Double Spatula	45cm		B376CS	B366CS				
	6mm 3/8 Double Spatula	30cm 45cm	B286GS B386GS	B276GS B376GS					
	8mm 1/2 Double Reverse Cutting	30cm	B288C5		B268C5				
	8mm 3/8 Double Reverse Cutting	30cm 45cm	B288G5 B388G5	B278G5 B378G5					
	8mm 1/2 Double Spatula	30cm 45cm		B278CS B378CS	B268CS B368CS	B258CS B358CS			
	8mm 1/4 Double Spatula	30cm 45cm		B278ES B378ES	B268ES B368ES	B258ES B358ES	B248ES B348ES		
	10mm 3/8 Double Reverse Cutting	45cm			B3610G5	B3510GS	B3410GS		
	10mm 3/8 Double Premium Cutting	45cm	B3810G4	B3710G4	B3610G4				
	11mm 3/8 Double Spatula	45cm			B3611GS	B3511GS	B3411GS		
	12mm 3/8 Double Reverse Cutting	45cm			B3612G5	B3512G5			
	12mm 3/8 Double Cutting	45cm					B3412G3		
	30mm 1/2 Double Taper Point	90cm							B8230C7

Polyglycolic Acid Precut

PGA	1-0	Violet	50*10	B41N*10
PGA	1-0	Violet	150*1	BA1N*1
PGA	1-0	Violet	180*1	BG1N*1
PGA	1-0	Violet	45*6	B31N*6
PGA	1-0	Violet	70*5	B61N*5
PGA	2-0	Violet	45*6	B32N*6
PGA	2-0	Violet	70*5	B62N*5
PGA	2-0	Violet	50*10	B42N*10
PGA	2-0	Violet	150*1	BA2N*1
PGA	3-0	Violet	45*6	B33N*6
PGA	3-0	Violet	70*5	B63N*5
PGA	3-0	Violet	45*12	B33N*12
PGA	3-0	Violet	45*18	B33N*18
PGA	3-0	Violet	50*10	B43N*10
PGA	3-0	Violet	150*1	BBA3N*1
PGA	4-0	Violet	45*6	B34N*6
PGA	4-0	Violet	70*5	B64N*5
PGA	4-0	Violet	45*17	B34N*17
PGA	4-0	Violet	50*10	B44N*10
PGA	4-0	Violet	150*1	BA4N*1
PGA	5-0	Violet	150*1	BA5N*1
PGA	1#	Violet	45*6	B31N*6
PGA	1#	Violet	45*12	B31N*12
PGA	1#	Violet	70.50	B61N*5
PGA	1#	Violet	150*1	BA1N*1
PGA	2#	Violet	150*1	BA2N*1

Polyglycolic Acid

			4-0	3-0	2-0	0	#1	#2	#3
	35mm 3/8 Reverse Cutting	75cm		B7335F5	B7235F5	B7035F5			
	26mm 1/2 Taper Point	70cm	B6426B7	B6326B7	B6226B7	B6026B7			
	30mm 1/2 Reverse Cutting	75cm							B7D30B5

BIOTRONIX HEALTHCARE - RPGA DATA SHEET

Chemical composition	100% polyglycolic acid
Color	Undyed
Knot tensile strength	7 days post implantation 50%
Mass absorption	Degradation by hydrolysis in approx. 42 days
Indications	
Sterilization	Ethylene oxide

Rapid Polyglycolic Acid

	Needle Description	Length	USP SIZE							
			8-0	7-0	6-0	5-0	4-0	3-0	2-0	0
	6.5mm 3/8 Spatula	30cm 45cm	I286.5FS I386.5FS	I276.5FS I376.5FS	I266.5FS I366.5FS					
	10mm 3/8 Taper	30cm	I2810F7							
	11mm 3/8 Premium Cutting	45cm				I3511F4				
	12mm 3/8 Reverse Cutting	45cm 75cm				I3512F5 I7512F5	I3412F5 I7412F5			
	12mm 3/8 Taper-cut	45cm			I3612F8					
	12mm 3/8 Premium Cutting	45cm				I3512F4	I3412F4			
	13mm 1/2 Taper	45cm 75cm				I3513B7 I7513B7				
	16mm 1/2 Taper	75cm				I7516B7	I7416B7			
	16mm 1/2 Reverse Cutting						I7416B5			
	16mm 3/8 Reverse Cutting	45cm 75cm				I3516F5 I7516F5	I3416F5 I7416F5	I3316F5 I7316F5		
	16mm 3/8 Cutting	75cm					I7416F3	I7316F3		
	16mm 3/8 Premium Cutting	45cm				I3516F4	I3416F4	I3316F4		
	16mm 5/8 Taper-cut	75cm					I7416H8	I7316H8		
	19mm 1/2 Taper	75cm					I7419B7	I7319B7		
	19mm 3/8 Reverse Cutting	45cm 75cm				I3519F5 I7519F5	I3419F5 I7419F5	I3319F5 I7319F5		
	19mm 3/8 Premium Cutting	45cm 75cm					I3419F4 I7419F4	I3319F4 I7319F4		
	19mm 3/8 Taper-cut	75cm					I7419F8	I7319F8		
	22mm 1/2 Taper	75cm					I7422B7	I7322B7	I7222B7	
	22mm 1/2 Reverse Cutting	75cm					I7422B5			
	22mm 3/8 Reverse Cutting	45cm					I3422F5	I3322F5		
	22mm 1/2 Cutting	45cm					I3422B3	I3322B3		
	24mm 3/8 Reverse Cutting	75cm					I7424F5	I7324F5	I7224F5	
	26mm 1/2 Taper	75cm					I7426B7	I7326B7	I7226B7	I7026B7
	26mm 1/2 Reverse Cutting	75cm						I7326B5	I7226B5	

Rapid Polyglycolic Acid

	Needle Description	Length	USP SIZE				
			4-0	3-0	2-0	0	#1
	26mm 3/8 Reverse Cutting	75cm		I7326F5	I7226F5	I7026F5	
	26mm 5/8 Cutting	75cm		I7326H3	I7226H3		
	26mm 3/8 Premium Cutting	75cm		I7326F4	I7226F4		
	26mm 1/2 Taper-cut	90cm			I8226B8	I8026B8	
	30mm 1/2 Taper	75cm		I7330B7	I7230B7		
	30mm 3/8 Reverse Cutting	75cm			I7230F5	I7030F5	
	36mm 1/2 Taper	75cm 90cm			I7236B7 I8236B7	I7036B7 I8036B7	I7B36B7 I8B36B7
	36mm 1/2 Premium Cutting	75cm		I7336B4			
	36mm 3/8 Premium Cutting	75cm			I7236F4	I7036F4	
	36mm 1/2 Taper Heavy	90cm			I8236BA		
	36mm 1/2 Taper-cut	75cm 90cm 120cm			I7236B8 I8236B8 I10236B8	I7036B8 I8036B8 I10036B8	I7B36B8 I8B36B8 I10B36B8
	38mm 1/2 Taper Heavy	90cm				I8038BA	I8B38BA
	40mm 1/2 Taper	75cm 90cm			I7240B7 I8240B7	I7040B7 I8040B7	I7B40B7 I8B40B7
	40mm 1/2 Taper Heavy	90cm				I8040BA	
	40mm 1/2 Taper-cut	90cm			I8240B8	I8040B8	I8B40B8
	45mm 1/2 Taper-cut	90cm			I8245B8	I8045B8	I8B45B8
	45mm Straight Cutting	45cm	I3445A3				

Rapid Polyglycolic Acid

	Needle Description	Length	USP SIZE			
			3-0	2-0	0	#1
	48mm 1/2 Taper	90cm			I8048B7	
	48mm 1/2 Taper Heavy	75cm 90cm		I7248BA I8248BA	I7048BA I8048BA	I7B48BA I8B48BA
	50mm 1/2 Taper Heavy	90cm			I8050BA	I8B50BA
	60mm Straight Cutting	75cm	I7360A3	I7260A3		

Rapid Polyglycolic Acid Precut

Rapid PGA	2-0	Braided	Biege	150	precut	IA2N

BIOTRONIX HEALTHCARE - PDO DATA SHEET

Chemical composition	Polydioxanone
Sizes	USP 2- USP 7/0 metric 5 – metric 0.5
retention	35days post implantation 50%(⩾USP3/0 – Metric 2)
Indications	General soft tissue approximation, specially in cases where an extended wound support of more than 4 weeks is desirable, pediatric cardiovascular surgery and for the suturing of autologous peripheral vessels
Sterilization	Ethylene oxide

PDO

			6-0	5-0	4-0	3-0	2-0	0
	11mm 1/2 Reverse Cutting	45cm	O3611B5	O3511B5				
	11mm 3/8 Premium Cutting	45cm	O3611F4	O3511F4				
	12mm 3/8 Taper	45cm	O3612F7	O3512F7	O3412F7			
	12mm 3/8 Premium Cutting	45cm	O3612F4	O3512F4				
	13mm 3/8 Taper	75cm	O7613F7	O7513F7	O7413F7			
	13mm 3/8 Cutting	45cm	O3613F3	O3513F3	O3413F3			
	13mm 3/8 Reverse Cutting	45cm		O3513F5	O3413F5			
	16mm 1/2 Cutting	45cm		O3516B3	O3416B3	O3316B3		
	16mm 1/2 Taper	75cm		O7516B7				
	16mm 1/2 Reverse Cutting	45cm		O3516B5	O3416B5	O3316B5		
	16mm 3/8 Premium Cutting	45cm		O3516F4	O3416F4	O3316F4	O3216F4	
	19mm 1/2 Taper	45cm			O3419B7			

PDO

			5-0	4-0	3-0	2-0	0	#1
	19mm 1/2 Cutting	45cm	O3519B3	O3419B3	O3319B3	O3219B3		
	19mm 3/8 Cutting	45cm	O3519F3	O3419F3	O3319F3	O3219F3		
	19mm 1/2 Reverse Cutting	45cm		O3419B5	O3319B5	O3219B5	O3019B5	
	19mm 3/8 Reverse Cutting	75cm				O7219F5	O7019F5	
	22mm 1/2 Taper	60cm			O5322B7			
	22mm 1/2 Reverse Cutting	75cm		O7422B5	O7322B5	O7222B5	O7022B5	O7B22B5
	22mm 1/2 Cutting	45cm		O3422B3	O3322B3	O3222B3	O3022B3	
	22mm 3/8 Cutting	45cm		O3422F3	O3322F3	O3222F3	O3022F3	
	22mm 3/8 Premium Cutting	75cm		O7422F4	O7322F4	O7222F4	O7022F4	
	24mm 3/8 Reverse Cutting	60cm			O5324F5			
	24mm 3/8 Premium Cutting	45cm			O3324F4			
	26mm 1/2 Taper	75cm		O7426B7		O7226B7	O7026B7	O7B26B7

PDO

			4-0	3-0	2-0	0	#1
	26mm 5/8 Taper Heavy	75cm			O7226HA	O7026HA	O7B26HA
	26mm 1/2 Reverse Cutting	75cm	O7426B5	O7326B5	O7226B5	O7026B5	
	26mm 3/8 Reverse Cutting	75cm	O7426F5	O7326F5	O7226F5	O7026F5	
	26mm 1/2 Cutting	75cm	O7426B3	O7326B3	O7226B3	O7026B3	
	26mm 3/8 Cutting	75cm	O7426F3	O7326F3	O7226F3	O7026F3	
	26mm 3/8 Premium Cutting	45cm	O3426F4	O3326F4	O3226F4	O3026F4	
	30mm 1/2 Taper	75cm		O7330B7	O7230B7	O7030B7	O7B30B7
	30mm 1/2 Blunt Point	75cm		O7330B1	O7230B1	O7030B1	O7B30B1
	30mm 3/8 Reverse Cutting	75cm		O7330F5	O7230F5	O7030F5	
	30mm 3/8 Cutting	75cm		O7330F3	O7230F3	O7030F3	
	30mm 1/2 Taper-cut	75cm		O7330B8	O7230B8	O7030B8	

PDO

			3-0	2-0	0	#1	#2
	36mm 1/2 Taper	90cm					O8C36B7
	36mm 1/2 Taper Heavy	75cm		O7236BA	O7036BA	O7B36BA	
	36mm 1/2 Blunt Point Heavy	75cm	O7336B2	O7236B2	O7036B2	O7B36B2	
	36mm 1/2 Reverse Cutting	75cm	O7336B5	O7236B5	O7036B5	O7B36B5	
	36mm 1/2 Cutting	75cm	O7336B3	O7236B3	O7036B3	O7B36B3	
	36mm 3/8 Premium Cutting	75cm	O7336F4	O7236F4	O7036F4	O7B36F4	
	36mm 1/2 Taper -cut	90cm		O8236B8		O8B36B8	

PDO

			3-0	2-0	0	#1	#2
	38mm 1/2 Taper Heavy	90cm				O8B38BA	O8C38BA
	40mm 1/2 Taper	75cm		O7240B7	O7040B7	O7B40B7	O7C40B7
	40mm 1/2 Taper Heavy	75cm			O7040BA	O7B40BA	O7C40BA
	40mm 1/2 Blunt Point	75cm		O7240B1	O7040B1	O7B40B1	
	40mm 1/2 Reverse Cutting	75cm		O7240B5			
	40mm 3/8 Reverse Cutting	75cm			O7040F5		O7C40F5

PDO

			2-0	0	#1	#2
	40mm 1/2 Taper-cut	90cm	O8240B8	O8040B8	O8B40B8	O8C40B8
	40mm 1/2 Taper-cut Heavy	90cm	O8240BB	O8040BB	O8B40BB	O8C40BB
	45mm 1/2 Taper Heavy	90cm		O8045BA	O8B45BA	O8C45BA
	45mm 1/2 Blunt Point	90cm			O8B45B1	O8C45B1
	48mm 1/2 Taper	90cm			O8B48B7	
	48mm 1/2 Taper Heavy	90cm		O8048BA	O8B48BA	O8C48BA

PDO

	Needle Description	2-0	4-0	3-0	2-0	0	#1	#2
	48mm 1/2 Blunt Point	150cm				OA048B1	OAB48B1	
	48mm 1/2 Taper-cut	90cm				O8048B8	O8B48B8	O8C48B8
	52mm 1/2 Reverse Cutting	90cm				O8052B5	O8B52B5	O8C52B5
	58mm Straight Cutting	75cm		O7358A3	O7258A3	O7058A3		

PDO DOUBLE

		8-0	7-0	6-0	5-0	4-0	3-0	0
9mm 3/8 Taper Double	45cm 75cm	O389G7 O789G7	O379G7 O779G7	O369G7 O769G7				
12mm 1/2 Taper Double	75cm			O7612C7	O7512C7	O7412C7		

PDO DOUBLE

			6-0	5-0	4-0	3-0	0
	13mm 1/2 Taper Double	75cm 90cm		O7513C7 O8513C7			
	19mm 1/2 Taper Double	75cm 90cm		O7519C7 O8519C7			
	22mm 1/2 Taper Double	90cm			O8422C7		

PDO Precut

PDO	2#	Mono	Violet	150*1	precut	OACN*1
PDO	1#	Mono	Violet	150*1	precut	OABN*1
PDO	1-0	Mono	Violet	75*1	precut	O71N*1
PDO	1-0	Mono	Violet	150*1	precut	OA1N*1
PDO	2-0	Mono	Violet	75*1	precut	O72N*1
PDO	2-0	Mono	Violet	150*1	precut	OA2N*1

PDO

			6-0	5-0	4-0	3-0	2-0	0
	19mm 3/8 Premium Rever Cutt Undyed	45cm			OU3419F6			
	48mm 1/2 Premium Taper Point	150cm						OA048B7*
	13mm 3/8 Premium Rever Cutt Clear	45cm				OC3313F6		
	37mm 1/2 Taper Point	90cm				OC8337B7		

PDO

			5-0	4-0	3-0	2-0	0	#1
	65mm 1/2 Premium Taper Point	240cm						OHB65B7*

BIOTRONIX HEALTHCARE - POLYGLACTINE 910 DATA SHEET

Chemical composition	Poly(glycolide-co-lactide)(90/10)
Color	Violet (D&C violet No.2)
Knot tensile strength	14days post implantation 75%
Mass absorption	Degradation by hydrolysis within 56~70 days
	Subcutaneous and intracutaneous closure, Gynaecology,
Sterilization	Ethylene oxide

PGLA

			4-0	3-0	2-0	0	#1	#2
	19mm 1/2 Taper	75cm		R7319B7				
	22mm 1/2 Taper	75cm		R7322B7				
	26mm 1/2 Taper	75cm		R7326B7	R7226B7			
	30mm 1/2 Taper	90cm		R8330B7	R8230B7	R8030B7	R8B30B7	
	36mm 1/2 Reverse Cutting	75cm			R7236B5		R7B36B5	
	40mm 1/2 Taper	75cm 90cm			R7240B7 R8240B7	R7040B7 R8040B7	R7B40B7 R8B40B7	R7C40B7 R8C40B7
	45mm 1/2 Taper	75cm					R7B45B7	

PGLA Precut

PGLA	2-0	Braided	Violet	75*2	precut	R72N*2
PGLA	3-0	Braided	Violet	75*2	precut	R73N*2

PGLA

			6-0	5-0	4-0	3-0	2-0	O
	27mm 1/2 Taper	75cm					R7227B7	
	17mm 1/2 Taper Undyed	70cm		RU6517B7		RU6317B7		
	19mm 3/8 Reverse Cutting Undyed	75cm				RU7319F5		
	24mm 3/8 Reverse Cutting Undyed	70cm		RU6524F5	RU6424F5	RU6324F5	RU6224F5	
	6mm 1/2 Double Spatula Undyed	45cm	RU366CS					
	19mm 3/8 Reverse Cutting Undyed	30cm			RU2419F5			
	13mm 1/2 Taper	45cm			R3413B7			