

Every Opening Deserves a Great Closing™



Visit vpledu.com for approved continuing education
Veterinary Sutures
RACE #423-5870†



VETERINARY PRODUCTS LABORATORIES



† This program was reviewed and approved by AAVSB RACE for one hour of continuing education in jurisdictions which recognize AAVSB RACE approval. Please contact AAVSB RACE program if you have any comments/concerns regarding this program's validity or relevancy to the veterinary profession. *There is no charge for this program.*

SUTURES

MONOMEND® MT

Mid-term absorbable monofilament for patients that have predictable wound healing.

- Glyconate monofilament
- 50% retention of knot tensile strength up to 14 days
- Complete mass absorption in 60-90 days
- Excellent pliability
- Secure knotting performance
- Easy tissue passage

Uses:

- For mid-term wound support
- General closure
- Skin repairs
- Subcuticular closure
- Soft tissue including muscle, stomach, intestine, uterus, bladder, ligatures
- Ophthalmic surgery
- Not recommended for abdominal fascia in elderly, debilitated or malnourished patients that have slower wound healing

Needles:

- Round bodied with taper point
- Reverse cutting
- Reverse cutting with micro-point

USP 5-0 to 1

MONOMEND® MaX

Long-term absorbable monofilament for patients with compromised wound healing.

- Poly-p-dioxanone monofilament
- 50% retention of knot tensile strength after 28-35 days
- Complete mass absorption in 180-210 days
- Excellent pliability
- Supple and easy to knot
- Smooth tissue passage

Uses:

- For extended wound support of more than 4 weeks
- For patients with compromised wound healing
- General closure
- Subcuticular closure
- Cardiovascular surgery
- Ophthalmic surgery
- Soft tissue including muscle, stomach, intestine, uterus, bladder, ligatures

Needles:

- Round bodied with taper point
- Reverse cutting
- Reverse cutting with micro-point

USP 5-0 to 2

POLYMEND® ES

Mid-term braided coated absorbable with tight precision wind for easy handling and secure knots.

- Polyglycolic acid multifilament*
- 50% retention of knot tensile strength at 14 days
- Complete mass absorption in 60-90 days
- Excellent pliability
- Excellent knot security
- Magnesium stearate coating ensures smooth tissue passage

*V-8161-1 (9-0) is monofilament

Uses:

- General wound closure
- Subcuticular closure
- Abdominal muscle and fascia
- Ophthalmic surgery
- Orthopedic surgery
- Soft tissue including muscle, intestine, hernia, uterus, liver, bladder, ligatures
- Not recommended for infected wounds

Needles:

- Micro-lancet (spatula) cutting
- Round bodied with taper point
- Reverse cutting

USP 9-0 to 1

CHROMEND™

Chromic gut in a dry pack.

- Pure collagen treated with chromic salts
- High tensile strength
- Improved pliability and flexibility
- Glycerol treatment for easy suturing
- Excellent knot security

Uses:

- General wound closure
- General closure of abdomen
- Subcuticular closure
- Soft tissue including muscle, intestine, uterus, bladder, ligatures

Needles:

- Round bodied with taper point
- Reverse cutting
- Non-needed

USP 4-0 to 3

PRO-STĀ®

Non-absorbable polypropylene monofilament.

- Flattened knot for maximum security
- Smooth for easy tissue passage and easy removal
- Highly pliable for easy suturing

Uses:

- General surgery
- Skin grafts
- Ear crops
- Cruciate ligament repair
- Hernia repair
- Cardiovascular surgery
- Ophthalmic surgery
- Intestinal anastomosis
- Soft tissue including intestine, tendons, ligaments

Needles:

- Reverse cutting with micro-point
- Reverse cutting

USP 4-0 to 2-0

NY-STĀ®

Non-absorbable nylon monofilament.

- High knot pull tensile strength
- Premium knot holding ability
- Smooth surface for easy tissue passage

Uses:

- General soft tissue
- Abdominal fascia
- Intestinal surgery
- Cruciate ligament repair
- Hernia repair

Needle:

- Reverse cutting

USP 4-0 to 2-0

MULTI-STĀ®

Non-absorbable braided coated polyester.

- High knot pull tensile strength
- Superb knot security
- Good tissue compatibility

Uses:

- General skin closure
- Cruciate ligament repair

Needle:

- Reverse cutting

USP 2

Convenient Packaging



- Quick-tear opening on inner envelope for Quick Needle Access™
- Clearly labeled information for easy, rapid, reliable identification
- Double sterile packaging
- 12 sutures per box

VPL Suture Conversion Chart

VPL Item Number	VPL Code	Suture Size	Metric Size	Suture Length	VPL Needle	Ethicon® Code	Ethicon® Needle
MONOMEND® MT Mid-Term Monofilament Synthetic Absorbable Sutures							
40061	M-966-1	2-0	3	36"	HS37s	N/A	N/A
40062	M-967-1	0	3,5	36"	HS37s	Y967H	CP-1
40063	M-968-1	1	4	36"	HS37s	N/A	N/A
40064	M-922-1	4-0	1,5	36"	DS19	Y922H	FS-2
40065	M-942-1	3-0	2	36"	DS24	Y942H	FS-1
40066	M-761-1	3-0	2	36"	HR26s	N/A	N/A
40067	M-762-1	2-0	3	36"	HR26s	Y762H	CT-2
40068	M-346-1	0	3,5	36"	HR37s	Y346H	CT-1
40069	M-347-1	1	4	36"	HR37s	Y347H	CT-1
40070	M-731-1	3-0	2	36"	HR26	Y316H	SH
40071	M-732-1	2-0	3	36"	HR26	Y732H	SH
40072	M-943-1	2-0	3	36"	DS24	Y943H	FS-1
40073	M-923-1	3-0	2	36"	DS19	Y923H	FS-2
40074	M-730-1	4-0	1,5	36"	HR26	Y315H	SH
40075	M-345-1	2-0	3	36"	HR37s	Y345H	CT-1
40076	M-987-1	0	3,5	36"	DS30	Y987H	FSL
40077	M-344-1	3-0	2	36"	HR37s	Y344H	CT-1
40078	M-303-1	5-0	1	18"	HR17	Y303H	RB-1
40079	M-463-1	5-0	1	18"	DSM16	Y463G	PS-3
40082	M-465-1	3-0	2	36"	HS37s	N/A	N/A
MONOMEND® MaX Long-Term Monofilament Synthetic Absorbable Sutures							
40001	X-421-1	5-0	1	27"	DS19	Z421H	FS-2
40002	X-397-1	4-0	1,5	27"	DS19	Z397H	FS-2
40003	X-398-1	3-0	2	27"	DS19	Z398H	FS-2
40004	X-452-1	3-0	2	27"	DS24	Z452H	FS-1
40005	X-451-1	2-0	3	27"	DS24	Z451H	FS-1
40006	X-968-1	3-0	2	27"	HS26s	Z968H	CP-2
40007	X-466-1	2-0	3	27"	HS37s	Z466H	CP-1
40008	X-195-1	2	5	27"	HS40s	Z195T	CP
40011	X-970-1	0	3,5	27"	HS26s	Z970H	CP-2
40013	X-467-1	0	3,5	27"	HS37s	Z467H	CP-1
40014	X-468-1	1	4	27"	HS37s	Z468H	CP-1
40016	X-465-1	3-0	2	27"	HS37s	Z465H	CP-1
40020	X-310-1	4-0	1,5	27"	HR22	Z310H	SH-1
40021	X-311-1	3-0	2	27"	HR22	Z311H	SH-1
40022	X-315-1	4-0	1,5	27"	HR26	Z315H	SH
40023	X-316-1	3-0	2	27"	HR26	Z316H	SH
40024	X-338-1	3-0	2	27"	HR37s	Z338H	CT-1
40025	X-339-1	2-0	3	27"	HR37s	Z339H	CT-1
40026	X-340-1	0	3,5	27"	HR37s	Z340H	CT-1
40027	X-341-1	1	4	27"	HR37s	Z341H	CT-1
40028	X-332-1	3-0	2	27"	HR26s	Z332H	CT-2
40029	X-333-1	2-0	3	27"	HR26s	Z333H	CT-2
40030	X-317-1	2-0	3	27"	HR26	Z317H	SH

VPL Suture Conversion Chart



VPL Item Number	VPL Code	Suture Size	Metric Size	Suture Length	VPL Needle	Ethicon® Code	Ethicon® Needle
Polymend® ES Coated Braided Synthetic Absorbable Sutures							
30072	V-8161-1	9-0	0,3	12"	DLm6	V549G	TG-140-8
30080	V-466-1	2-0	3	27"	HS37s	J466H	CP-1
30081	V-467-1	0	3,5	27"	HS37s	J467H	CP-1
30082	V-468-1	1	4	27"	HS37s	J468H	CP-1
30083	V-397-1	4-0	1,5	27"	DS19	J397H	FS-2
30084	V-452-1	3-0	2	27"	DS24	J452H	FS-1
30085	V-332-1	3-0	2	27"	HR26s	J332H	CT-2
30086	V-333-1	2-0	3	27"	HR26s	J333H	CT-2
30087	V-340-1	0	3,5	27"	HR37s	J340H	CT-1
30090	V-317-1	2-0	3	27"	HR26	J317H	SH
30091	V-453-1	2-0	3	27"	DS24	J453H	FS-1
30092	V-398-1	3-0	2	27"	DS19	J398H	FS-2
30094	V-385-1	5-0	1	18"	DS16	J385H	C-3
30095	V-396-1	5-0	1	27"	DS19	J451H	FS-2
Chromend™ Chromic Gut Sutures (dry pack)							
30000	C-G121-1	4-0	2	30"	HR26	G121H	SH
30001	C-G122-1	3-0	3	30"	HR26	G122H	SH
30002	C-G123-1	2-0	3,5	30"	HR26	G123H	SH
30003	C-636-1	3-0	3	30"	DS19	636H	FS-2
30004	C-637-1	2-0	3,5	30"	DS24	637G	FS-1
30005	C-638-1	0	4	30"	DS24	638G	FS
30007	C-812-1	0	4	30"	HR37s	812H	CT-1
30008	C-882-1	3-0	3	30"	HR26s	882H	CT-2
30009	C-883-1	2-0	3,5	30"	HR26s	883H	CT-2
30017	C-117-1	3	7	60"	N/A	S117H	N/A
NY-STĀ® Nylon Sutures							
30020	N-662-1	4-0	1,5	18"	DS19	662H	FS-2
100503731	N-66230	4-0	1,5	30"	DS19	N/A	N/A
30021	N-663-1	3-0	2	18"	DS24	663H	FS-1
100503730	N-66330	3-0	2	30"	DS24	669H	FS-1
30022	N-664-1	2-0	3	18"	DS24	664H	FS
100503729	N-66430	2-0	3	30"	DS24	N/A	N/A
PRO-STĀ® Polypropylene Sutures							
30041	P-8684-1	3-0	2	18"	DS24	8684H	FS-1
100503727	P-868430	3-0	2	30"	DS24	N/A	N/A
30042	P-8685-1	2-0	3	18"	DS24	8685H	FS
100503728	P-868530	2-0	3	30"	DS24	N/A	N/A
30045	P-8699-1	4-0	1,5	18"	DSmP13	8699G	P-3
MULTI-STĀ® Coated Braided Polyester Sutures							
30060	LC-B406-1	2	5	30"	DS76	X406T	LR

Needle and Product Range






Cutting-needle with Micro-lancet




3/8 circle	Product
 DLm6	Polymend® ES

Reverse cutting-needle with Micro-point






3/8 circle	Product
 DSmP13	PRO-STĀ
 DSM16	Monomend® MT

Reverse cutting-needle

3/8 circle	Product
 DS16	Polymend ES®
 DS19	Monomend® MT, Monomend® MaX, Polymend ES, Chromend™, NY-STĀ®
 DS24	Monomend MT, Monomend MaX, Polymend ES, Chromend, NY-STĀ, PRO-STĀ
 DS30	Monomend MT
 DS76	MULTI-STĀ®

1/2 circle	Product
 HS26s	Monomend® MaX,
 HS37s	Monomend MT, Monomend MaX, Polymend® ES
 HS40s	Monomend MaX


Taper-needle

1/2 circle	Product
 HR17	Monomend® MT
 HR22	Monomend MaX
 HR26	Monomend MT, Monomend MaX, Polymend® ES, Chromend™
 HR26s	Monomend MT, Monomend MaX, Polymend ES, Chromend
 HR37s	Monomend MT, Monomend MaX, Polymend ES, Chromend



Conversion Chart Surgical Suture Needle

New VPL - Ethicon® - D&G - Needle Nomenclature






Cutting-needle with Micro-lancet




3/8 circle	Needle Length	VPL Needle	Ethicon®	Covidien
	6 mm	DLm6	TG-140-8	SE-140-8

Reverse cutting-needle with Micro-point






3/8 circle	Needle Length	VPL Needle	Ethicon®	Covidien
	13 mm	DSmP13	P-3	P-13
	16 mm	DSm16	PS-3	P-11

Reverse cutting-needle

3/8 circle	Needle Length	VPL Needle	Ethicon®	Covidien
	16 mm	DS16	FS-3	C-12
	19 mm	DS19	FS-2	C-13
	24 mm 26 mm	DS24	FS-1 FS	C-14 C-15
	30 mm	DS30	FSL	C-16
	76 mm	DS76	LR	GS-18

1/2 circle	Needle Length	VPL Needle	Ethicon®	Covidien
	26 mm	HS26s	CP-2	GS-10
	37 mm	HS37s	CP-1	GS-11
	40 mm	HS40s	CP	GS-12

Taper-needle

1/2 circle	Needle Length	VPL Needle	Ethicon®	Covidien
	16 mm	HR17	RB-1	CV-23
	22 mm	HR22	SH-1	CV-25
	26 mm	HR26	SH	V-20
	26 mm	HR26s	CT-2	GS-22
	37 mm	HR37s	CT-1	GS-21

Conversion Charts

Conversion Chart Surgical Suture Material

VPL - Ethicon - D&G - Brand name and material description

VPL product	VPL material	Suture Length	Ethicon	Covidien
Monomend® MT	Synthetic absorbable, glyconate, monofilament, violet	18" & 36"	Monocryl®	Biosyn®
Monomend® MaX	Synthetic absorbable, poly-p-dioxanone, monofilament, violet	27"	PDS® II	Maxon®
Polymend® ES	Synthetic absorbable, polyglycolic acid, coated, braided, violet	12", 18" & 27"	Vicryl®	Dexon®
Chromend™	Natural absorbable, dry gut chromic	30" & 60"	Surgical Gut	Surgical Gut
NY-STĀ®	Non-absorbable, polyamide, monofilament, black	18" & 30"	Ethilon®	Dermalon®
PRO-STĀ®	Non-absorbable polypropylene, monofilament, blue	18"	Prolene®	Surgilene®, Novafil®
MULTI-STĀ®	Non-absorbable, polyester, coated, braided, green	30"	Ethibond®	Ticron®

VPL Sutures Needles are high quality 300 series stainless steel alloy for:

- Smooth penetration through tissues, even after multiple penetrations
- Excellent bending & breaking resistance

Needle nomenclature

To identify the different types of needles, VPL uses the following nomenclature:



Needle angle of curvature

H 1/2 circle
D 3/8 circle

Body type

R Round bodied ●
S Reverse Cutting needles ▼
M Micro-Point ▽
L Lancet or Spatula ◁

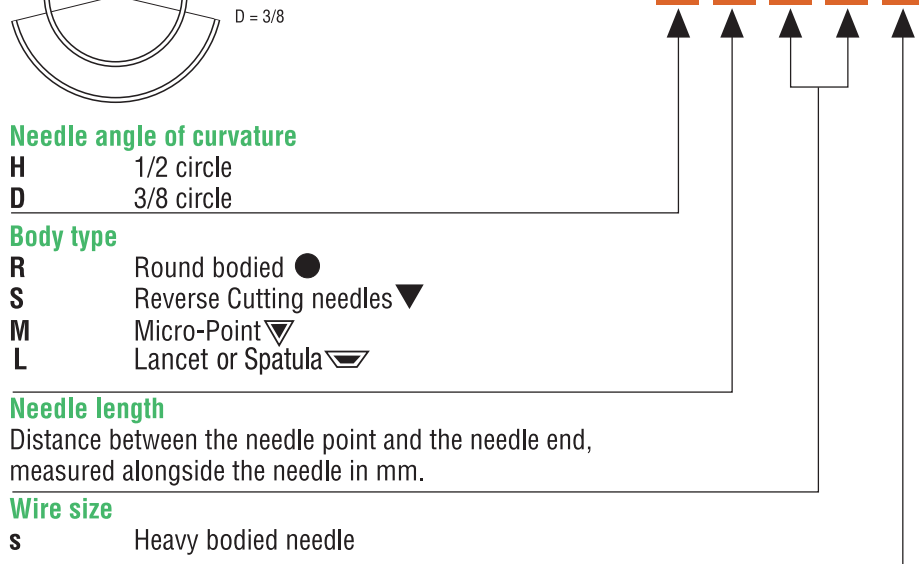
Needle length

Distance between the needle point and the needle end, measured alongside the needle in mm.

Wire size

s Heavy bodied needle

A B 1 2 C



Example

HR26 → 1/2 circle round bodied needle 26 mm long.

Helpful Hints

Suture & Knot Etiquette

1. Use the smallest suture size possible with the least amount of possible throws.
2. Place the first throw in precise position for the final knot, using a double loop; tie the second throw square using horizontal tension.
3. Carry knot down to the tissues with the tips of the index fingers and lay strands flat by drawing them in opposite directions.
4. Tie knots firmly so they will not slip.
5. Do not pull strands too hard when tying them because too much tension will cut tissues.
6. Anticipate postoperative tissue swelling. Sutures tied too tightly will lacerate tissue or cause tissue necrosis.
7. Avoid undue friction between strands as this may fray or weaken the surgical suture.

Suture Handling and Storage

1. Protect all absorbable sutures from heat and moisture.
2. Do not store sutures near heating pipes, radiators, windows or autoclaves.
3. Refrain from soaking absorbable sutures.
4. Avoid excessive handling of sutures prior to use.
5. Straighten strands with a gentle pull.
6. Refrain from testing strands for strength.
7. Avoid crushing with instruments.



Every Opening Deserves a Great Closing™



VETERINARY PRODUCTS LABORATORIES

Innovative products in veterinary medicine™

P.O. Box 34820, Phoenix, AZ 85067-4820

vpl.com 888-241-9545