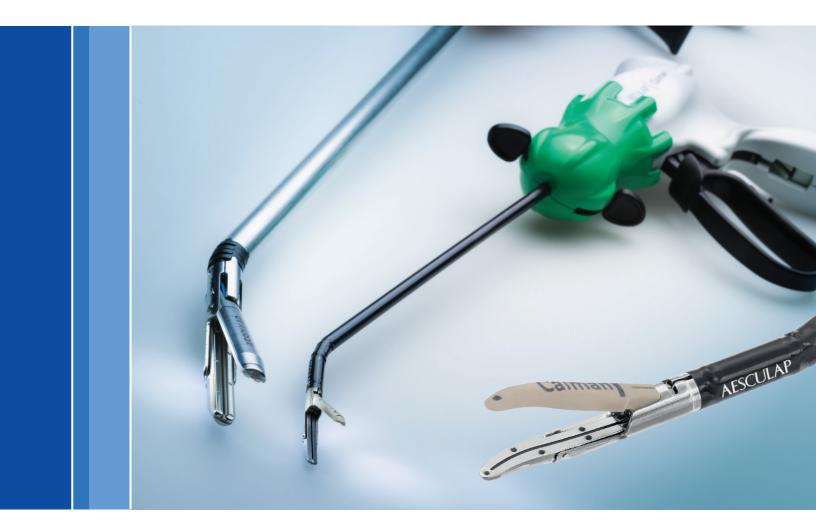
Value Analysis Brief



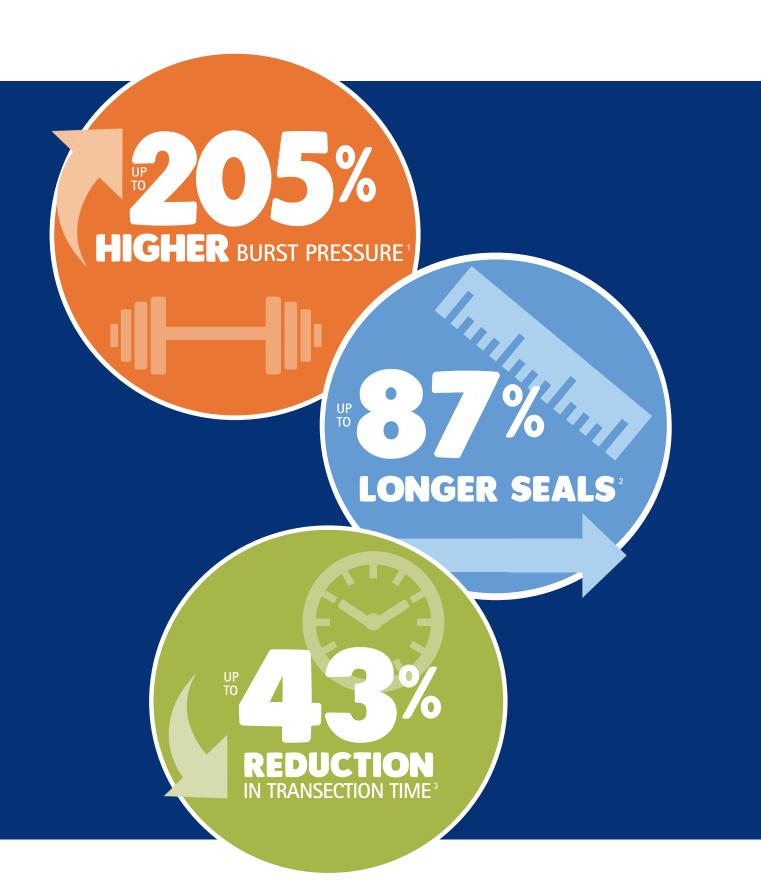
Aesculap Laparoscopy



Value Analysis Brief

NOT ALL ENERGY IS CREATED EQUAL.

The Caiman portfolio features a wide range of vessel sealing and cutting devices in open and laparoscopic surgery for vessels up to and including 7 mm. Uniquely designed jaws optimize procedural efficiency with exceptional transection speed, secure tissue manipulation and minimal thermal spread.



Value Analysis Brief



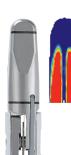
Caiman's unique jaw design delivers uniform compression with a clean and consistent seal quality, independent of where the vessel is positioned in the jaws. ■ Strong Uniform Compression is key to creating a confident seal. Compression force in other devices may decline from proximal to distal end, influencing the sealing quality and causing tissue slippage during jaw closure.



Comparable Product Maryland (5 mm)



Comparable product (5 mm)



Comparable product (10 mm)



Caiman® 5 Maryland (5 mm)



Caiman® 5 (5 mm)



Caiman® 12 (12 mm)

Red represents minimum required pressure (or greater). Blue represents insufficient pressure.

Minimum required pressures based on Aesculap calculated requirements. Graphs of minimum required pressure produced on a synthetic tissue model.

Value Analysis Brief



Caiman has the longest jaws on the market for any advanced bipolar or ultrasonic device available, allowing for heightened efficiency in laparoscopic and open procedures.

Jaw Length (mm)	Cut Length (mm)	Caiman® 5 Jaw	Comparison
26.5	23.5	Caiman [®]	Caiman® 5
21.5	20	Caiman	Caiman® Maryland
20	18		LigaSure® Maryland
19.5	17.8		LigaSure® 5 mm Blunt Tip
20	19		Enseal® G2
14.2	14.2	0	Harmonic ACE®+
~16	~16		Thunderbeat [®]
13.7	11.8		HALO PKS™



Value Analysis Brief



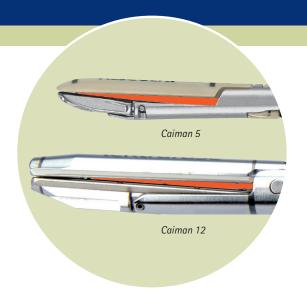
Caiman's unique hinged jaw paired with the longest jaws on the market helps provide exceptional transection time.

■ Tip-First Closure

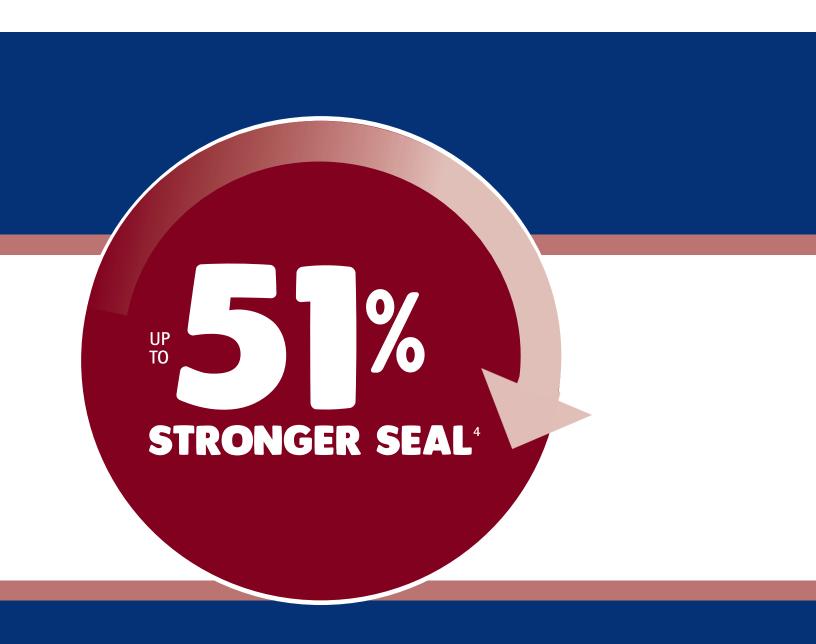
Lower jaw hinge causes the tip of the instrument to close first, capturing tissue and preventing slippage.

■ Efficient Energy

Minimizes tissue damage with less thermal spread than other advanced bipolar devices.



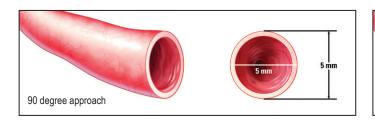
Value Analysis Brief

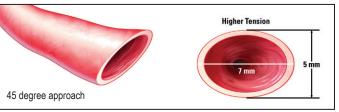


Improved Maneuverability

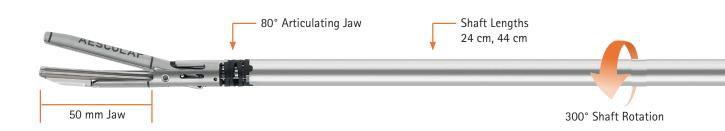
Articulation is offered to improve access to vessels in challenging anatomy. With 80° of articulation, procedures can be completed more efficiently with fewer trocar port changes. Articulation supports perpendicular vessel sealing, which may result in up to 51% greater sealing strength compared to seals created at an angle.⁴



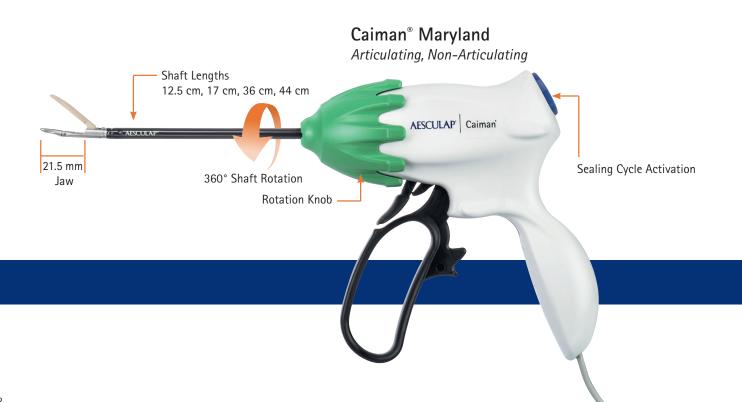




Value Analysis Brief









Value Analysis Brief

5 mm Vessel Sealer Cross Reference Chart

Caiman® 5 - 24 cm Comparison (Open Surgery)

Company	Item No.	Description	Diameter	Shaft Length	Seal Length	Cut Length	Shaft Rotation	Tip First Closure
Aesculap Caiman°	PL738SU PL739SU	Caiman 5/ Caiman 5 Articulating	5 mm	24 cm	26.5 mm	23.5 mm	360°	Yes
Medtronic	LF1623	LigaSure® 5 mm Blunt Tip	5 mm	23 cm	19.5 mm	17.8 mm	180°	No
Medtronic	LS1520	LigaSure Dolphin Tip	5 mm	20 cm	18 mm	12 mm	179°	No
Ethicon	ETRIO-314H ETRIO-325H	Enseal® TRIO	5 mm	14 cm 25 cm	18 mm	15 mm	360°	No

Caiman 5 - 36 cm Comparison (Laparoscopic Surgery)

Company		Item No.	Description	Diameter	Shaft Length	Seal Length	Cut Length	Shaft Rotation	Tip First Closure
Aesculap	Caiman	PL740SU PL741SU	Caiman 5/ Caiman 5 Articulating	5 mm	36 cm	26.5 mm	23.5 mm	360°	Yes
Medtronic		LF1637	LigaSure 5 mm Blunt Tip	5 mm	37 cm	19.5 mm	17.8 mm	180°	No
Medtronic		LS1500	LigaSure Dolphin Tip	5 mm	37 cm	18 mm	12 mm	179°	No
Ethicon		NSLG2C35A NSLG2S35A	Enseal G2 Articulating	5 mm	35 cm	20 mm	19 mm	360°	No
Ethicon		ETRIO-335H	Enseal TRIO	5 mm	35 cm	18 mm	15 mm	160°	No

Caiman 5 - 44 cm Comparison (Laparoscopic Surgery)

Company	Item No.	Description	Diameter	Shaft Length	Seal Length	Cut Length	Shaft Rotation	Tip First Closure
Aesculap Caiman ^o	PL742SU PL743SU	Caiman 5/ Caiman 5 Articulating	5 mm	44 cm	26.5 mm	23.5 mm	360°	Yes
Medtronic	LF1644	LigaSure 5 mm Blunt Tip	5 mm	44 cm	19.5 mm	17.8 mm	159°	No
Medtronic	LF5544	LigaSure Advance	5 mm	44 cm	18 mm	15.5 mm	340°	No
Ethicon	NSLG2C45A NSLG2S45A	Enseal G2 Articulating	5 mm	45 cm	20 mm	10 mm	360°	No
Ethicon	ETRIO-345H	Enseal TRIO	5 mm	45 cm	18 mm	15 mm	360°	No

5 mm Vessel Sealer Cross Reference Chart

Caiman® 5 Maryland Comparison (Open Surgery)

Company	Item No.	Description	Diameter	Shaft Length	Seal Length	Cut Length	Shaft Rotation	Tip First Closure
Aesculap Caiman	PL774SU PL775SU	Caiman 5 Maryland	5 mm	12.5 cm 17 cm	21.5 mm	20 mm	360°	Yes
Medtronic	LF1723	LigaSure® Maryland	5 mm	23 cm	20 mm	18 mm	350°	No
Ethicon Ethicon	NSLG2C14 NSLG2S14 NSLG2C25 NSLG2S25	Enseal® G2 Curved/Straight	5 mm	14 cm 25 cm	20 mm	17 mm	360°	No

Caiman 5 Maryland Comparison (Laparoscopic Surgery)

Company		Item No.	Description	Diameter	Shaft Length	Seal Length	Cut Length	Shaft Rotation	Tip First Closure
Aesculap	Caiman	PL770SU PL771SU PL772SU	Caiman 5 Maryland Caiman 5 Maryland Articulating	5 mm	36 cm 44 cm	21.5 mm	20 mm	360°	Yes
		PL773SU	Aiticulating						
Medtronic	•	LF1737 LF1744	LigaSure Maryland	5 mm	37 cm 44 cm	20 mm	18 mm	350°	No
Ethicon		NSLG2C35 NSLG2S35 NSLG2C45 NSLG2S25	Enseal G2 Curved/Straight	5 mm	35 cm 45 cm	20 mm	17 mm	360°	No

Value Analysis Brief

12 mm Vessel Sealer Cross Reference Chart Caiman 12 - 24 cm Comparison (Open Surgery) Tip First Shaft Seal Cut Shaft Company Item No. Description Diameter Length Length Length Rotation Closure Caiman 12 Aesculap **AESCULAP** PL730SU 12 mm 24 cm 50 mm 47 mm 300° Yes **Articulating** LigaSure® 13.5 mm LF4318 18 cm 36 mm 34 mm 180° Medtronic No **Impact** (oval) LigaSure Medtronic LS1020 359° No 10 mm 20 cm 22 mm 20 mm Atlas Enseal® G2 12 mm 20 cm 40 mm 37 mm **Ethicon** NSEALX22L 360° No Super Jaw Caiman 12 - 44 cm Comparison (Laparoscopic Surgery) Seal Cut Shaft Tip First Shaft Company Item No. Description Diameter Length Rotation Closure Length Length Caiman 12 Aesculap PL731SU 300° 12 mm 44 cm 50 mm 47 mm Yes **Articulating** LigaSure Medtronic LS1037 10 mm 37 cm 22 mm 22 mm 359° No Atlas

Ordering Information

		ltem No.	Shaft diameter	Working length	Quantity per box
Caiman 5 Non Articulating	AFSCULAP	PL738SU PL740SU PL742SU	5 mm 5 mm 5 mm	24 cm 36 cm 44 cm	6 6 6
Caiman 5 Non Articulating Maryland	pr assculap	PL774SU PL775SU PL770SU PL772SU	5 mm 5 mm 5 mm 5 mm	12.5 cm 17 cm 36 cm 44 cm	6 6 6
Caiman 5 Articulating	J. January C. Company of the Company	PL739SU PL741SU PL743SU	5 mm 5 mm 5 mm	24 cm 36 cm 44 cm	6 6 6
Caiman 5 Articulating Maryland		PL771SU PL773SU	5 mm 5 mm	36 cm 44 cm	6 6
Caiman 12 Articulating		PL730SU PL731SU	12 mm 12 mm	24 cm 44 cm	3

References

- 1 Data on file; Caiman® 5, Harmonic Ace®+, Harmonic Ace®+7, LigaSure™ Blunt Tip and Enseal® G2 studied via in vivo vessel sealing and ex vivo burst pressure testing on porcine veins (10 per device) and arteries (10 per device) up to 7mm diameter, 2014
- 2 Data on file; Caiman® 5, Harmonic Ace®, LigaSure™ Blunt Tip, Enseal® G2, Thunderbeat® and HALO PKS™ sealing length comparison
- 3 Data on file; Caiman® 5, Harmonic Ace®+, Harmonic Ace®+7, LigaSure™ Blunt Tip and Enseal® G2 studied via in vivo timed transection of porcine colonic mesentery in 15 cm increments (10 per device), 2014
- 4 A. C. Voegele, PE, D. L. Korvick, VMD, M. Gutierrez, MSHS, J. W. Clymer, PhD, J. F. Amaral, MD; Perpendicular Blood Vessel Seals Are Stronger Than Those Made at an Angle; Journal of Laparoendoscopic & Advanced Surgical Techniques; Vol. 23, No. 0, 2013.

Value Analysis Brief

I am requesting the following instruments to be evaluated at our facilit	ty:	
□ PL774SU – Caiman Maryland vessel sealing/cutting instrument, 5 mm di □ PL775SU – Caiman Maryland vessel sealing/cutting instrument, 5 mm di □ PL738SU – Caiman vessel sealing/cutting instrument, 5 mm diameter, 24 □ PL740SU – Caiman vessel sealing/cutting instrument, 5 mm diameter, 36 □ PL770SU – Caiman Maryland vessel sealing/cutting instrument, 5 mm di □ PL772SU – Caiman Maryland vessel sealing/cutting instrument, 5 mm di □ PL742SU – Caiman vessel sealing/cutting instrument, 5 mm diameter, 44 □ PL739SU – Caiman articulating vessel sealing/cutting instrument, 5 mm □ PL741SU – Caiman articulating vessel sealing/cutting instrument, 5 mm □ PL773SU – Caiman Maryland articulating vessel sealing/cutting instrument □ PL773SU – Caiman Maryland articulating vessel sealing/cutting instrument □ PL730SU – Caiman articulating vessel sealing/cutting instrument, 12 mm □ PL731SU – Caiman articulating vessel sealing/cutting instrument, 12 mm □ PL731SU – Caiman articulating vessel sealing/cutting instrument, 12 mm □ PL731SU – Caiman for the following procedures:	iameter, 17 cm length 4 cm length 6 cm length iameter, 36 cm length iameter, 44 cm length 4 cm length diameter, 24 cm length diameter, 36 cm length diameter, 44 cm length ent, 5 mm diameter, 44 cm le m diameter, 24 cm length	
I have clinically evaluated Caiman for the procedures, and below are th		I am currently using:
Key Evaluated Performance Areas Below Average	Same	Superior
Quality of Seal (consistency, hemostasis) Seal & Cutting Length		
Tissue Retention in Jaws Other:		
Other:		
Time Saved □ 0-10 minutes □ 10-30 minutes □ 30+ m	ninutes	
	Data	
Signature:	Date:	
Signature: Additional Comments:	Date:	

Evaluation Request Form

I am requesting the following instruments to be evaluated at our facility:	
□ PL774SU – Caiman Maryland vessel sealing/cutting instrument, 5 mm diameter, 12 □ PL775SU – Caiman Maryland vessel sealing/cutting instrument, 5 mm diameter, 17 □ PL738SU – Caiman vessel sealing/cutting instrument, 5 mm diameter, 24 cm length □ PL740SU – Caiman vessel sealing/cutting instrument, 5 mm diameter, 36 cm length □ PL770SU – Caiman Maryland vessel sealing/cutting instrument, 5 mm diameter, 36 □ PL772SU – Caiman Maryland vessel sealing/cutting instrument, 5 mm diameter, 44 □ PL742SU – Caiman vessel sealing/cutting instrument, 5 mm diameter, 44 cm length □ PL739SU – Caiman articulating vessel sealing/cutting instrument, 5 mm diameter, 30 □ PL741SU – Caiman articulating vessel sealing/cutting instrument, 5 mm diameter, 40 □ PL773SU – Caiman Maryland articulating vessel sealing/cutting instrument, 5 mm diameter, 41 □ PL773SU – Caiman Maryland articulating vessel sealing/cutting instrument, 5 mm diameter, 42 □ PL773SU – Caiman articulating vessel sealing/cutting instrument, 5 mm diameter, 43 □ PL773SU – Caiman articulating vessel sealing/cutting instrument, 12 mm diameter, 43 □ PL731SU – Caiman articulating vessel sealing/cutting instrument, 12 mm diameter, 44 □ PL731SU – Caiman articulating vessel sealing/cutting instrument, 12 mm diameter, 44 □ PL731SU – Caiman articulating vessel sealing/cutting instrument, 12 mm diameter, 44 □ PL731SU – Caiman articulating vessel sealing/cutting instrument, 12 mm diameter, 44 □ PL731SU – Caiman articulating vessel sealing/cutting instrument, 12 mm diameter, 44 □ PL731SU – Caiman articulating vessel sealing/cutting instrument, 12 mm diameter, 44	cm length cm length cm length 24 cm length 36 cm length 44 cm length diameter, 36 cm length diameter, 44 cm length
Caiman Technology Offers:	
Tip-First Closure and Hinged Jaw to support tissue retention and uniform compression	ression for delivery of a clean and consistent seal
 Long Jaws for heightened procedural efficiency 	
 Seal up to 21.5 mm and cut up to 20 mm of tissue at a time (Caiman Marylan 	nd 5 mm devices)
 Seal up to 26.5 mm and cut up to 23.5 mm of tissue at a time (Caiman 5 mm 	devices)
 Seal up to 50 mm and cut up to 47 mm of tissue at a time (Caiman 12 mm de 	evices)
 Articulation to improve access to challenging anatomy 	
Signature:	Date:
Additional Comments:	

Value Analysis Brief



K183180 Page 1 of 2

510(k) SUMMARY (as required by 21 CFR 807.92)

Caiman® 5 Maryland March 11, 2019

COMPANY: Aesculap®®, Inc.

3773 Corporate Parkway Center Valley, PA 18034

Establishment Registration Number: 2916714

CONTACT: Ms. Jessica Stigliano

610-984-9063 (phone) 610-791-6882 (fax)

jessica.stigliano@Aesculapimplants.com

TRADE NAME: Caiman® 5 Maryland

COMMON NAME: Electrosurgical, Cutting & Coagulation & Accessories

REGULATION NUMBER: 21 CFR 878.4400

PRODUCT CODE: GEI

REVIEW PANEL: General and Plastic Surgery

PRIMARY PREDICATE

K151696 - Caiman Seal and Cut Technology

REFERENCE DEVICE

K130596 - Caiman Seal and Cut Technology

K110824 - Aragon Surgical RF System - 5mm Laparoscopic Instrument

SUBSTANTIAL EQUIVALENCE

Aesculap®, Inc. believes that the Caiman® 5 Maryland is substantially equivalent to the primary predicate, Caiman® Seal and Cut Technology (K151696) and reference devices, Caiman® Seal and Cut Technology (K130596) and Aragon Surgical RF System – 5mm Laparoscopic Instrument (K110824).

DEVICE DESCRIPTION

The Caiman® 5 Maryland instruments are seal and cut devices which are provided as sterile, single use devices. These devices are capable of vessel sealing, blunt dissection, grasping and dividing tissue enclosed within its jaws during open and laparoscopic procedures. The devices



Page 2 of 2

are designed to be used with the dedicated Lektrafuse RF Generator and create vessel ligation by the application of bipolar electrical RF energy and tissue division with a cutting blade.

INDICATIONS FOR USE

Instruments 12.5 cm, 17 cm, and 24 cm in length are indicated for open procedures and instruments 36 cm and 44 cm in length are indicated for laparoscopic procedures. The indications for use include general surgical procedures, (including urologic, vascular, thoracic, and thoracoscopic), and gynecological procedures where ligation and division of vessels is performed. These procedures include: vaginal hysterectomies, Nissen fundoplication, colectomy, adhesiolysis, bowel resection, and oophorectomy etc., or any procedure where vessel ligation (seal and cut), tissue grasping, and dissection is performed. The devices can be used on vessels up to and including 7mm and bundles as large as will fit in the jaws of the instrument.

Caiman Seal and Cut Technology has not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures. Do not use the system for these procedures.

TECHNOLOGICAL CHARACTERISTICS (compared to Predicate(s))

The modifications made to the Caiman instruments do not affect the fundamental scientific technology. The modifications made to these devices do not raise any new issues of safety and effectiveness, as confirmed by the testing and validation activities described in the submission.

Value Analysis Brief

AESCULAP

K151696

Page 1 of 2

510(k) SUMMARY (as required by 21 CFR 807.92)

Caiman® Seal and Cut Technology

June 22, 2015

COMPANY: Aesculap[®], Inc.

3773 Corporate Parkway Center Valley, PA 18034

Establishment Registration Number: 2916714

CONTACT: Denise R. Adams, RAC

610-984-9076 (phone) 610-791-6882 (fax)

TRADE NAME: Caiman Seal and Cut Technology

COMMON NAME: Electrosurgical, Cutting & Coagulation & Accessories

CLASSIFICATION NAME: Electrosurgical Cutting and Coagulation Device and

Accessories

REGULATION NUMBER: 21 CFR 878.4400

PRODUCT CODE: GEI

SUBSTANTIAL EQUIVALENCE

Caiman Seal and Cut Technology is substantially equivalent to the Caiman Seal and Cut Technology system cleared via K130596.

DEVICE DESCRIPTION

Caiman Seal and Cut Technology consists of the Lektrafuse RF Generator and the Caiman seal and cut devices which are provided as sterile, single use devices. These devices are capable of vessel sealing, blunt dissection, grasping and dividing tissue enclosed within its jaws during open and laparoscopic procedures. The devices are designed to be used with the dedicated Lektrafuse RF Generator and create vessel ligation by the application of bipolar electrical RF energy and tissue division with a cutting blade. The 5 mm instruments (not the generator) are the subject of this submission.

AESCULAP

Page 2 of 2

INDICATIONS FOR USE

Caiman Seal and Cut Technology consists of dedicated bipolar electrosurgical instruments intended for use in general surgery and gynecologic surgical procedures where ligation and division of vessels is desired. The instruments create a seal by the application of bipolar electrosurgical RF energy (coagulation) to vascular structure (vessels) interposed between the jaws of the device. A cutting blade is actuated for the division of tissue.

Instruments 24 cm in length are indicated for open procedures and instruments 36 cm and 44 cm in length are indicated for laparoscopic procedures. The indications for use include general surgical procedures, (including urologic, vascular, thoracic, and thoracoscopic), and gynecological procedures where ligation and division of vessels is performed. These procedures include: vaginal hysterectomies, Nissen fundoplication, colectomy, adhesiolysis, bowel resection, and oophorectomy etc., or any procedure where vessel ligation (seal and cut), tissue grasping, and dissection is performed. The devices can be used on vessels up to and including 7mm and bundles as large as will fit in the jaws of the instrument.

Caiman Seal and Cut Technology has not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures. Do not use the system for these procedures.

TECHNOLOGICAL CHARACTERISTICS (compared to predicates)

The modifications made to the Caiman Seal and Cut Technology system do not affect the fundamental scientific technology. The principal of operation has not changed for these devices. The following modifications made to these devices do not raise any new issues of safety and effectiveness: addition of 5mm articulating instrument, addition of a gasket in the shaft, shaft length, isolator assembly, distal cable connector, an adhesive change. Material changes were made to the dissection clip and heat shrink material.

PERFORMANCE DATA

Bench testing was performed on the modified devices and found them to be substantially equivalent to the predicate devices. The testing included the following tests: Articulation Angle/Torque, Biocompatibility, Cutter Advancement, Cutting Blade Termination, Dissection Distance, Distal Jaw Gap, Flow Rate, Force to Lock and Release Jaw, Instrument Life, Jaw Adhesion, Jaw Force (clamping compression), Jaw Grasp, Tissue Resistance Test, Sealing (length, size & time), Seal Burst Pressure on three different tissue types, Thermal Spread Trocar Compatibility, Visual Arcing and Regrasp.

The Caiman Seal and Cut Technology is in compliance with the following safety standards: IEC 60601-2-2, IEC 60601-1-2, IEC 60601-1: 3rd Edition, and IEC 60601-2-18.

Value Analysis Brief



K151858

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510(k) SUMMARY (as required by 21 CFR 807.92)

Caiman® Seal and Cut Technology

July 15, 2015

COMPANY: Aesculap_®, Inc.

3773 Corporate Parkway Center Valley, PA 18034

Establishment Registration Number: 2916714

CONTACT: Denise R. Adams, RAC

610-984-9076 (phone) 610-791-6882 (fax)

TRADE NAME: Caiman Seal and Cut Technology

COMMON NAME: Electrosurgical, Cutting & Coagulation & Accessories

CLASSIFICATION NAME: Electrosurgical Cutting and Coagulation Device and

Accessories

REGULATION NUMBER: 21 CFR 878.4400

PRODUCT CODE: GEI

SUBSTANTIAL EQUIVALENCE

Caiman Seal and Cut Technology is substantially equivalent to the Caiman Seal and Cut Technology System cleared via K140839.

DEVICE DESCRIPTION

Caiman Seal and Cut Technology consists of the Lektrafuse RF Generator and the sterile, single use Caiman devices. These devices are capable of vessel sealing, blunt dissection, grasping and dividing tissue enclosed within its jaws during open and laparoscopic procedures. The devices are designed to be used with the dedicated Lektrafuse RF Generator and create vessel ligation by the application of bipolar electrical RF energy and tissue division with a cutting blade.

AESCULAP

INDICATIONS FOR USE

Page 2 of 2

Caiman Seal and Cut Technology consists of dedicated bipolar electrosurgical instruments intended for use in general surgery and gynecologic surgical procedures where ligation and division of vessels is desired. The instruments create a seal by the application of bipolar electrosurgical RF energy (coagulation) to vascular structure (vessels) interposed between the jaws of the device. A cutting blade is actuated for the division of tissue.

Instruments 24cm in length are indicated for open procedures and instruments 36cm and 44 cm in length are indicated for laparoscopic procedures. The indications for use include general surgical procedures, (including urologic, vascular, thoracic, and thoracoscopic), and gynecological procedures where ligation and division of vessels is performed. These procedures include: vaginal hysterectomies, Nissen fundoplication, colectomy, adhesiolysis, bowel resection, and oophorectomy etc., or any procedure where vessel ligation (seal and cut), tissue grasping, and dissection is performed. The devices can be used on vessels up to and including 7mm and bundles as large as will fit in the jaws of the instrument.

Caiman Seal and Cut Technology has not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures. Do not use the system for these procedures.

TECHNOLOGICAL CHARACTERISTICS (compared to predicate)

The modifications made to the Caiman Seal and Cut Technology system do not affect the fundamental scientific technology. The design, materials, and principal of operation have not changed for these devices. The modifications made to these devices do not raise any new issues of safety and effectiveness.

PERFORMANCE DATA

Bench testing was performed on the modified devices and found them to be substantially equivalent to the predicate devices. The Plus Mode performance verification on the Lektrafuse Generator with the Caiman 12mm and Caiman 5mm included the following tests:

- 1. Seal Burst Pressure on three different tissue types
- 2. Visual Arcing
- Jaw Adhesion
- 4. Thermal Spread

Caiman Seal and Cut Technology is in compliance with the following safety standards:

- 1. IEC 60601-2-2
- 2. IEC 60601-1-2
- 3. IEC 60601-1: 3rd Edition
- 4. IEC 62304

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement below.

510(k) Number (if known)
K140839
Device Name Caiman Seal and Cut Technology
Indications for Use (Describe) Caiman Seal and Cut Technology consists of dedicated bipolar electrosurgical instruments intended for use in general surgery and gynecologic surgical procedures where ligation and division of vessels is desired. The instruments create a seal by the application of bipolar electrosurgical RF energy (coagulation) to vascular structure (vessels) interposed between the jaws of the device. A cutting blade is actuated for the division of tissue.
The Caiman 12 Plus (44cm) and the Caiman 5 are indicated for laparoscopic procedures and the Caiman 12 Plus (24cm) is indicated for open procedures. The indications for use include general surgical procedures, (including urologic, vascular, thoracic, and thoracoscopic), and gynecological procedures where ligation and division of vessels is performed. These procedures include: vaginal hysterectomies, Nissen fundoplication, colectomy, adhesiolysis, bowel resection, and oophorectomy etc., or any procedure where vessel ligation (seal and cut), tissue grasping, and dissection is performed. The devices can be used on vessels up to and including 7mm and bundles as large as will fit in the jaws of the instrument.
Caiman Seal and Cut Technology has not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures. Do not use the system for these procedures.
Type of Use (Select one or both, as applicable)
Prescription Use (Part 21 CFR 801 Subpart D) Over-The-Counter Use (21 CFR 801 Subpart C)
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Joshua C. Nipper -S

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