

DOCUMENT NUMBER: ENG-RPT-535
DOCUMENT TITLE: ZIP ACE Modified, 6-Pack Ship Test Report, T=0
DOCUMENT NOTES:

# **Document Information**

Revision: 001	Vault: MEG-Rel
Status: Release	Document Type: ENG-RPT

# **Date Information**

Effective Date: 22 Jun 2018	Expiration Date:
Release Date: 22 Jun 2018	Next Review Date:

# **Control Information**

Author: TSKINNER	Owner: TSKINNER
Previous Number:	Change Number: 2018-ENG-DCO-043

Revision: 001

# **Signature Manifest**

**Document Number:** ENG-RPT-535

Title: ZIP ACE Modified, 6-Pack Ship Test Report, T=0

All dates and times are in Mountain Standard Time.

#### Zip ACE Mod T=0 Ship testing

Chanc	e Red	iuest
-------	-------	-------

Name/Signature	Title	Date	Meaning/Reason
Lucy Richards (LRICHARDS)		07 Feb 2018, 10:05:07 AM	Approved

#### Collaboration

Name/Signature	Title	Date	Meaning/Reason
Joni Stegeman (JSTEGEMAN)	Ethicon Quality	14 Jun 2018, 06:18:53 PM	Complete
Paul Borgmeier (PBORGMEIER)		18 Jun 2018, 09:50:12 AM	Complete
Darlene Hull (DHULL)	Regulatory	18 Jun 2018, 10:56:54 AM	Complete
Tyler Skinner (TSKINNER)	Project Engineer	19 Jun 2018, 01:36:40 PM	Complete

#### **Document Review**

Name/Signature	Title	Date	Meaning/Reason
Lucy Richards (LRICHARDS)		19 Jun 2018, 01:46:38 PM	Complete

#### **RA-Approval**

Name/Signature	Title	Date	Meaning/Reason
Darlene Hull (DHULL)	Regulatory	19 Jun 2018, 02:52:08 PM	Approved

#### **QA-Approval**

Name/Signature	Title	Date	Meaning/Reason
Joni Stegeman (JSTEGEMAN)	Ethicon Quality	19 Jun 2018, 04:06:01 PM	Approved

# **ENG-Approval**

Name/Signature	Title	Date	Meaning/Reason
Paul Borgmeier (PBORGMEIER)		21 Jun 2018, 03:30:51 PM	Approved

#### **Training Review**

Name/Signature	Title	Date	Meaning/Reason
Lucy Richards (LRICHARDS)		22 Jun 2018, 09:16:38 AM	Approved

#### **Final Release**

Name/Signature	Title	Date	Meaning/Reason
Lucy Richards (LRICHARDS)		22 Jun 2018, 09:16:50 AM	Approved

Printed on: 21 Jan 2020, 11:12:08 pm; Printed by: .

Megadyne Medical Products, Inc.	TEST REPORT	Document Number ENG-RPT-535	
	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001	
	T=0	Page 1 of 37	

Authored By: Tyler Skinner

#### 1. ABSTRACT

Test Protocol ENG-PRT-441 was completed successfully. Testing was limited to Bubble Leak testing, Dye testing, Burst testing, Minimum Seal Width testing, and a Product Damage Inspection in order to verify the proposed 6-Pack shipping configuration. All tests were completed successfully.

These results demonstrate that the proposed 6-Pack shipping configuration (ME725M1C and ME725M1E) does not damage the Tyvek pouch seal and protects the product from damage. The results also provide confidence that the product will withstand the anticipated shipping environment and meet DMR requirements in ENG-DMR-012 after EO Sterilization.

#### 2. REFERENCES

ENG-DMR-012	DMR, Smoke Evacuation Pencil and Accessories
ENG-RMF-045	Risk Analysis, Smoke Evacuation Accessories
ENG-PRT-441	ZIP ACE Modified, 6-Pack Ship Test, T=0
ME725M1C	Ace Blade 700, 2.5" Zip Pen, "C" Connector, 10 ft. Tubing
ME725M1E	Ace Blade 700, 2.5" Zip Pen, EC Connector, 10 ft. Tubing

#### 3. OBJECTIVE

This Test Report documents that using the proposed 6-Pack shipping configuration to distribute Zip Pens has no effect on the packaging integrity of the EO sterile product.

#### 4. APPENDICES

Appendix I – 2X EO Exposure

Appendix II – Preconditioning and Ship Testing

Appendix III – Bubble Leak Testing

Appendix IV – Dye Testing

Appendix V – Burst Testing

Appendix VI – Minimum Seal Width Testing

Appendix VII – Product Damage Inspection

#### 5. RESULTS

Megadyne Medical Products, Inc.	TEST REPORT	Document Number ENG-RPT-535
	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
	T=0	Page 2 of 37

#### 5.1. 2X EO Sterilization

36 Zip Pen samples (6 boxes) SKU: ME725M1C Lot # 170323 were EO sterilized twice per Sterigenics Cycle 115. See Appendix I for EO sterilization documentation.

# 5.2. Ship Conditioning

36 Zip Pen Samples (6 boxes) SKU: ME725M1C Lot # 170323 were then ship conditioned/tested as outlined in ENG-PRT-441. See Appendix II for a complete summary of testing.

Tests were performed under typical warehouse conditions, which are:

Temperature: 23°C ±5°C

Relative Humidity: 50% ±35%

# 5.2.1. Preconditioning

Preconditioning followed the schedule below (see Appendix II for Cycle Data):

CONDITIONS	DURATION
Transition from ambient to -40°C	Based on Chamber Capability
Hold -40°C no humidity control	4 hours
<sup>II</sup> Transition from -40°C to55°C	Set time to 0:00 and set the standard deviation to 1°C
<sup>u</sup> Transition from 55°C to 55°C and a 95%RH	Set time to 0:00 and set the standard deviation to 1°C and 2% RH
Hold 55°C and 95%RH	4 hours
Transition from 55°C and 95% RH Ho 55°C and 15% RH	Set time to 0:00 and set the standard deviation to 1°C and 2% RH
aHold 55°C and 15%RH	4 hours
nTransition to 23°C and 50%RH	Set time to 0:00 and set the standard deviation to 1°C and 2% RH
Hold 23°C and 50%RH	72 hours

#### ing - Manual (Drop Test)

The Manual Handling (Drop Test) was performed using a drop height of 15 in as outlined in ENG-PRT-441.

## 5.2.3. Vehicle Stacking (Compression Test)

The Vehicle Stacking (Compression Test) was performed using a computed load (L) of 200 lb as outlined in ENG-PRT-441.

#### 5.2.4. Vehicle Vibration and Loose Load Vibration Tests

The Vehicle Vibration test was performed for 10 min as outlined in ENG-PRT-441. Following the Vehicle Vibration test, the Loose Load Vibration Test was performed for 40 min as outlined in ENG-PRT-441.

Megadyne Medical Products, Inc.	TEST REPORT	Document Number ENG-RPT-535
	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
	T=0	Page 3 of 37

# 5.2.5. Concentrated Impact Test

The Concentrated Impact Test was performed as outlined in ENG-PRT-441.

# 5.2.6. Manual - Handling (2nd Drop Test)

The Manual Handling (2<sup>nd</sup> Drop Test) was performed using a drop height of 15 in with the final drop at a height of 30 in as outlined in ENG-PRT-

5.2.7. Each box remained intact and did not break open during the test. See Appendix II.

#### 5.3. Bubble Leak Testing

The Bubble Leak test was performed on 35 samples as outlined in ENG-PRT-441. There will no tears, holes, or open seals in any pouch. See Appendix III.

# 5.4. Dye Testing

The Dye Test was performed on 35 samples as outlined in ENG-PRT-441. There were no breaches in the seal and no signs of separation or degradation. See Appendix IV.

# 5.5. Burst Testing

The Burst Test was performed on 36 samples as outlined in ENG-PRT-441. All samples passed with a minimum of 23.1 in. H<sub>2</sub>O and a mean of 26.625 in. H<sub>2</sub>O. See Appendix V.

# 5.6. Minimum Seal Width Testing

The Minimum Seal Width Test was performed on 35 samples as outlined in ENG-PRT-441. The minimum seal width of all edges exceeded the passing criteria of 0.20" with an average of 0.31" and a minimum of 0.21". See Appendix VI.

## 5.7. Product Damage Inspection

Product Damage Inspection was performed on 35 samples as outlined in ENG-PRT-441. No damage to the electrode, coating, or any other part of the Zip Pen was observed. See Appendix VII.

#### 6. DISCUSSION

#### 6.1. 2X EO Sterilization

6.1.1. Products were EO sterilized as outlined in the test protocol.

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products, Inc.	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
	T=0	Page 4 of 37

# 6.2. Ship Test Conditioning

- 6.2.1. Shipping and storage conditions reached all extremes required by the test protocol for all test groups.
- 6.2.2. The acceptance criteria were satisfied for the 6-Pack shipping configuration.
- 6.3. Bubble Leak Testing
  - 6.3.1. The acceptance criteria were satisfied for the 6-Pack shipping configuration.
- 6.4. Dye Testing
  - 6.4.1. The acceptance criteria were satisfied for the 6-Pack shipping configuration.
- 6.5. Burst Testing
  - 6.5.1. The acceptance criteria were satisfied for the 6-Pack shipping configuration.
  - 6.5.2. For Burst Testing a total of 36 samples were tested. This deviates from the required 35, however, this is acceptable as passing results were obtained for all samples and the testing of an extra sample provides an additional opportunity for a packaging failure.
- 6.6. Minimum Seal Width Testing
  - 6.6.1. The acceptance criteria were satisfied for the 6-Pack shipping configuration.
- 6.7. Product Damage Inspection
  - 6.7.1. The acceptance criteria were satisfied for the 6-Pack shipping configuration.

#### 7. CONCLUSIONS

- 7.1. 2X EO Sterilization
  - 7.1.1. Product was successfully exposed to EO sterilization.

Megadyne Medical Products, Inc.	TEST REPORT	Document Number ENG-RPT-535
	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
	T=0	Page 5 of 37

- 7.2. Ship Test Conditioning
  - 7.2.1. The 6-Pack box meets ASTM D4169.
- 7.3. Bubble Leak Testing
  - 7.3.1. The 6-Pack shipping configuration does not add additional risk of leaks in the product packaging.
- 7.4. Dye Testing
  - 7.4.1. The 6-Pack shipping configuration does not add additional risk of breaches in the seal of the product packaging.
- 7.5. Burst Testing
  - 7.5.1. The 6-Pack shipping configuration does not add additional risk of burst product packaging.
- 7.6. Minimum Seal Width Testing
  - 7.6.1. The 6-Pack shipping configuration does not reduce the seal width of the product packaging.
- 7.7. Product Damage Inspection
  - 7.7.1. The 6-Pack shipping configuration does not add additional risk of damage to the product.

#### 8. RECOMMENDATIONS

Based on these test results, it is recommended that EO sterilization does not adversely affect the packaging of Zip Pens in the 6-Pack shipping configuration (ME725M1C and ME725M1E).

Megadyne Medical Products, Inc.	TEST REPORT	Document Number ENG-RPT-535
	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
	T=0	Page 6 of 37

#### APPENDIX I – 2X EO EXPOSURE

1<sup>st</sup> Exposure

The user must ensure that frey are using the correct/current revision of this document. Document: OPER-FRM-016 Ray: 001 Effective: 12 Apr 2013 12:00 AM

#### REVISION HISTORY

REVISION	DOCUMENT CHANGE ORDER NUBMER	DESECRIPTION OF CHANGE	EFFECTIVE DATE
A	00-134-01	Initial Release	2000-09-21

Printed on: 17 Oct 2017, 08:50:45 am; Printed by: :EMCKENNA.

**Document Number** Megadyne TEST REPORT **ENG-RPT-535** Medical **Revision: 001** Products. ZIP ACE Modified, 6-Pack Ship Test Report, Inc. **Page 7 of 37** 



# Certificate or Processing

STERIGENICS 5725 Harold Gatty Drive Salt Lake City UT 84116 TEL 801 328-9901 FAX 801 328-9951 www.sterigenics.com

Megadyne 29511 Processing Facility: Work Order # Sales Order # **Customer Name:** Salt Lake City 2084963 Cycle 115 11/10/2017 15:12:02 GMT Received Date/Time:

SO Line #	Qty	UOM	Description #1	Description #2	Pallet ID	Customer Load Number	Customer Lot No.	
101.000	1	PL	Customer kits	Cycle 115	47667197	29511	NA	
102.000	1	PL	Customer kits	Cycle 115	47667198	29511	NA	
103.000	1	PL	Customer kits	Cycle 115	47667199	29511	NA	
104.000	1	PL	Customer kits	Cycle 115	47667200	29511	NA.	
	4	PL	Total					

#### **Processing Summary**

Op#	Operation Name	Location			Date/Time In (GMT)	Date/Time Out (GMT)	Total Time (Hours)
100.00	RECEVING & LOAD PREP	UNPROC			11/10/2017 15:12:02	11/10/2017 17:39:10	2.45
110.00	WAREHOUSE HOLD	HOLD			11/10/2017 17:39:10	11/17/2017 17:08:38	167.49
120.00	PRECONDITIONING	P3LANE2			11/17/2017 17:08:38	11/18/2017 20:48:38	27.67
130.00	TRANSFER TO CHAMBER	WORKAISL			11/18/2017 20:48:38	11/18/2017 21:04:18	.26
200.00	CHAMBER	CHAMBER3			11/18/2017 21:04:18	11/19/2017 05:56:00	8.86
230.00	TRANSFER TO AERATION	WORKAISL			11/19/2017 05:56:00	11/19/2017 06:36:17	.67
300.00	AERATION	AERATION6			11/19/2017 06:36:17	11/20/2017 07:40:24	25.07
350.00	TRANSFER TO WAREHOUSE	PROC			11/20/2017 07:40:24	11/20/2017 07:50:21	.17
399.00	REVIEW	PROC			11/20/2017 07:50:21	11/20/2017 07:51:58	.03
	Total Usage (to neares	t whole number):	EO	56	LB		

#### Quality Test Summary

							igned By
Op#	Quality Test Description	Min Spec	Max Spec	Result	Pass/Fail	User	Date / Time
110.00	8 HR Hold (Nov Apr.)	YES	YES	YES	Pass	AESPINO	11/17/2017 17:05:29 GMT
						ARMANDO ESPINO	
110.00	Place BI's Per Specification	19 EA	19 EA	19 EA	Pass	AESPINO	11/17/2017 17:05:37 GMT
						ARMANDO ESPINO	
120.00	Precon. Room Temp. Specs. Met	YES	YES	YES	Pass	JMREYES	11/18/2017 20:54:38 GMT
						JOSE REYES	
120.00	Prec. Room RH Specs. Met	YES	YES	YES	Pass	JMREYES	11/18/2017 20:54:53 GMT
						JOSE REYES	
300.00	Aeration Temperature Specs Met	YES	YES	YES	Pass	RFREEMAN	11/20/2017 07:41:33 GMT
						RONALD FREEMAN	
350.00	Remove Bl's Post Chamber	19 EA	19 EA	19 EA	Pass	RFREEMAN	11/20/2017 07:50:45 GMT
						RONALD FREEMAN	

The above products were processed according to the process specification requirements. All parameters reviewed were found to be in compliance with specifications.

Electronically Signed By: TONY VADNAIS Reason:

Work Order Completions

Date: 11/20/2017 15:43:13 GMT

#### ISO 9001 and ISO 13485 Registered

Megadyne Medical Products, Inc.	TEST REPORT	Document Number ENG-RPT-535	
	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001	
	T=0	Page 8 of 37	



# Megadyne Medical Products, Inc. Work Order 2084963 2017-11-19



The Global Leader in Contract Sterilization Services

Megadyne Medical Products, Inc.

TEST REPORT	Document Number ENG-RPT-535
ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
T=0	Page 9 of 37





WORK ORDER: 2084963 CYCLE: 115
SALES ORDER: 1821030 PURCHASE ORDER: 29511

FACILITY: Salt Lake City - Sterigenics CUSTOMER: Megadyne Medical Products, Inc.

5725 Harold Gatty Drive 11506 South State Street
Salt Lake City, UT 84116 Salt Lake City, UT 84020

United States

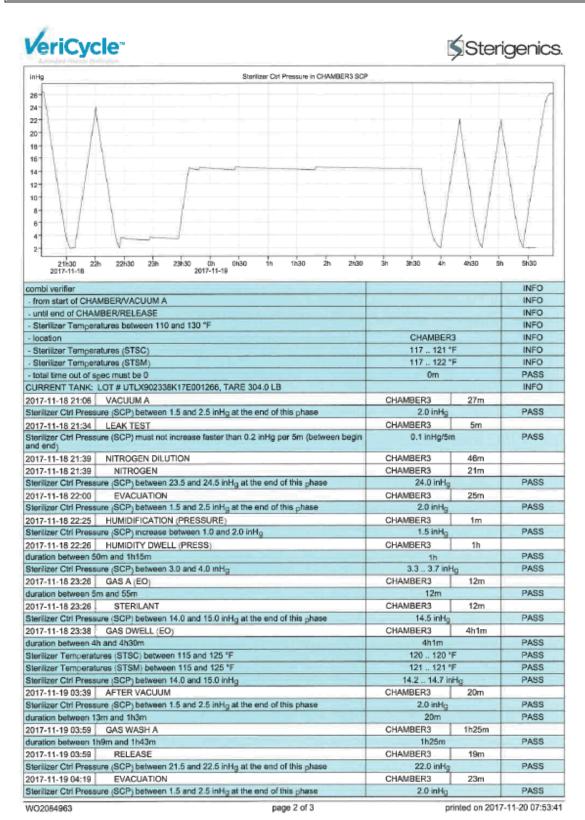
ITEM: 129\_115\_CH VERIFICATION RECIPE ID: 16585

Qty	Description #1	Description #2	Pallet ID	Customer Load #	Customer Lot #
1 PL	Customer kits	Cycle 115	47667197	29511	NA
1 PL	Customer kits	Cycle 115	47667198	29511	NA
1 PL	Customer kits	Cycle 115	47667199	29511	NA
1 PL	Customer kits	Cycle 115	47667200	29511	NA
4 PL					

2017-11-10 15:12 RECEVING & LOAD PREP	UNPROC 2h27m		
parts list total quantity between 3 and 7	1, m 1	PASS	
2017-11-10 17:39 WAREHOUSE HOLD	HOLD 6d23h29m		
duration at least 8h	6d23h29m	PASS	
2017-11-17 17:08 PRECONDITIONING	P3LANE2 1d3h40m		
duration between 1d and 3d	1d3h40m	PASS	
combi verifier		INFO	
- from start of PRECONDITIONING		INFO	
- until end of PRECONDITIONING		INFO	
- Precon Temperatures between 100 and 120 °F		INFO	
- Precon RHs between 45 and 75 %RH		INFO	
- location	P3LANE2	INFO	
- Precon Temperatures (PTSC)	on Temperatures (PTSC) 109 110 °F		
- Precon Temperatures (PTSM)	109 110 °F	INFO	
- Precon RHs (PRHSC)	61 67 %RH	INFO	
- Precon RHs (PRHSM)	61 67 %RH	INFO	
- minimum 1d in spec	1d3h40m	PASS	
- maximum 30m out of spec (consecutive)	Om Om	PASS	
Precon Temperatures (PTSC) at most 120 °F	109 110 °F	PASS	
Precon Temperatures (PTSM) at most 120 °F	109 110 °F	PASS	
Precon RHs (PRHSC) at most 75 %RH	61 67 %RH	PASS	
Precon RHs (PRHSM) at most 75 %RH	61 67 %RH	PASS	
2017-11-18 20:48 TRANSFER TO CHAMBER	WORKAISL 16m		
duration at most 1h	16m	PASS	
2017-11-18 21:04 CHAMBER	CHAMBER3 8h52m		
cycle check value must be 6115	6115	PASS	

WO2084963 page 1 of 3 printed on 2017-11-20 07:53:41

Megadyne<br/>Medical<br/>Products,<br/>Inc.TEST REPORT<br/>ENG-RPT-535Document Number<br/>ENG-RPT-535ZIP ACE Modified, 6-Pack Ship Test Report,<br/>T=0Revision: 001<br/>Page 10 of 37



Megadyne<br/>Medical<br/>Products,<br/>Inc.TEST REPORT<br/>ENG-RPT-535Document Number<br/>ENG-RPT-535ZIP ACE Modified, 6-Pack Ship Test Report,<br/>T=0Revision: 001<br/>Page 11 of 37



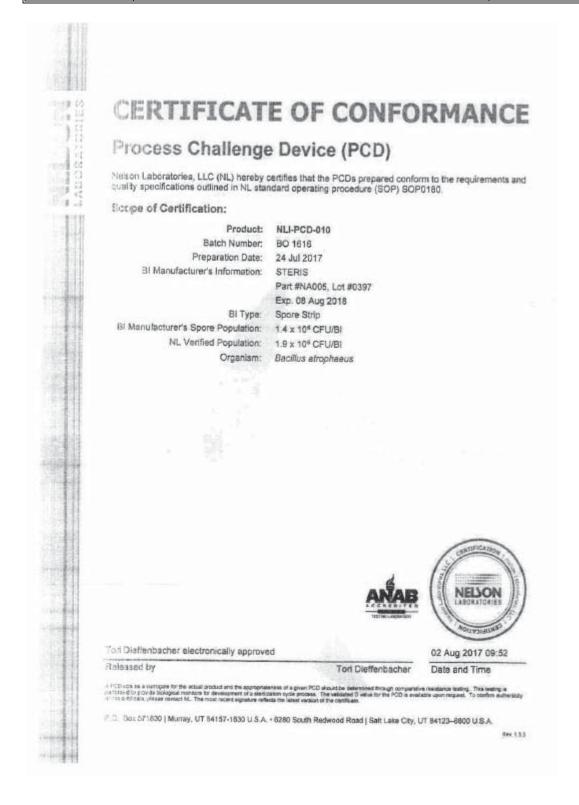


Automoted Process Verticalar			9
2017-11-19 04:42 RELEASE	CHAMBER3	19m	
Sterilizer Ctrl Pressure (SCP) between 21.5 and 22.5 inHg at the end of this phase	22.0 inHg		PASS
2017-11-19 05:02 EVACUATION	CHAMBER3	23m	
Sterilizer Ctrl Pressure (SCP) between 1.5 and 2.5 inHg at the end of this phase	2.0 inHg		PASS
2017-11-19 05:25 RELEASE	CHAMBER3	23m	
Sterilizer Ctrl Pressure (SCP) between 24.7 and 25.8 inHg at the end of this phase	24.8 inHg		PASS
2017-11-19 05:48 CYCLE COMPLETE	CHAMBER3	8m	
Sterilant Usage Total (SUT) at least 0 lb 5m before the start of this phase	56 lb		PASS
2017-11-19 05:56 TRANSFER TO AERATION	WORKAISL	40m	
2017-11-19 06:36 AERATION	AERATION6	1d1h4m	
duration between 1d and 3d	1d1h4m		PASS
combi verifier			INFO
- from start of AERATION			INFO
until end of AERATION			INFO
- Aeration Temperatures between 100 and 120 °F			INFO
- Aeration Circulation between 90 and 110			INFO
- location	AERATION	INFO	
- Aeration Temperatures (ATSC)	104 111 '	INFO	
- Aeration Temperatures (ATSM)	104 111 '	INFO	
- Aeration Circulation (AC1)	99101	INFO	
- minimum 1d in spec	1d1h4m	PASS	
- maximum 30m out of spec (consecutive)	Orm	PASS	
Aeration Temperatures (ATSC) at most 120 °F	104 111 1	PASS	
Aeration Temperatures (ATSM) at most 120 °F	104 111 *	F	PASS
2017-11-20 07:40 TRANSFER TO WAREHOUSE	PROC	10m	
2017-11-20 07:50 REVIEW	PROC	2m	
B HR Hold (Nov Apr.) (YES)	YES		PASS
Prec. Room RH Specs. Met (YES)	YES		PASS
Precon. Room Temp. Specs. Met (YES)	YES		PASS
Aeration Temperature Specs Met (YES)	YES		PASS
Remove Bl's Post Chamber (19 EA)	19		PASS
Place Bl's Per Specification (19 EA)	19		PASS
RESULT OF VERIFICATION		PASS	

It is austomers responsibility to ensure acceptance of any result other than PASS noted on this report prior to release of the load.

WO2084963 page 3 of 3 printed on 2017-11-20 07:53:41

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 12 of 37



**Document Number** Megadyne TEST REPORT ENG-RPT-535 Medical **Revision: 001** Products. ZIP ACE Modified, 6-Pack Ship Test Report, Inc. Page 13 of 37

CRM42221 Rovd: 10 Jul 2017 Ambient Use By: 08 Aug 2018

BO 16/16

STERIS

STERIS Corporation Biological Operations Bacillus atrophaeus BIOLOGICAL INDICATOR CERTIFICATE OF PERFORMANCE Exhibit K

CATALOG NUMBER: NA005

PRODUCT NAME: Spordex Strip

PRODUCT LOT NUMBER: C17013

SUBASSEMBLY LOT NUMBER: 0397

**EXPIRATION DATE: August 8, 2018** 

Bacillus atrophaeus NRRL B4418:

Mean Population Recovery\* (CFU): 1.4 x 106

Survival Time (Min.): 11.2

Dso Value\*\* (Min.\*\*\*): 2.7

Kill Time (Min.): 27.3

Dps Value\*\* (Min. \*\*\*): 1.3

Survival Time (Min.): 5.4

Kill Time (Min.): 13.1

- Colony forming units determined after a preliminary heat treatment.
- \*\* 600±30mg/L EO using 100% EO, 54±1°C, 60±10% RH or 160±1°C Dry Heat
- \*\*\* Determined at time of manufacture by fraction negative procedure after graded exposure to sterilization conditions.

Incubate at 30° to 35°C for seven days

Store at 2° to 24°C and between 30% to 80% RH. Do not use after the indicated expiration date. Dispose of as you would any other microbiological waste (121°C for a minimum of 30 minutes).

This document certifies that the biological indicator product listed above meets STERIS' quality assurance specifications and the performance criteria suggested by the current revision of the United States Pharmacopeia. This certifies that the product listed above has been tested in compliance with current versions of, ISO 11138-1, ISO 11138-2, and USP.

**Quality Systems Representative:** 

LIMITATION OF LIABILITY AND INDEMNITY

Nothing in this Certificate of Performance shall, or is intended to, alter, expand, or diminish the terms and conditions of sale governing your purchase of the Biological Indicator Product from STERIS. In no event, whether as a result of breach of warranty, or tort (including negligence and strict os the introduction records from \$1 kms. In no event, whether as a result of order on warrany, or fort (including magnifice and strict liability) shall STERIS or its suppliers be liable as a result of any statement or information contained in this Certificate of Performance. In addition, STERIS shall not be liable for any consequential or incidental damages including, without limitation, loss of use or damage to your products or equipment, cost of substitute products, or down time costs, allegedly caused by the Biological Indicators Products. The responsibility of STERIS for damages due to injuries or death caused by the Biological Indicator Product shall be limited to that portion of such damages as might be attributable. to the negligence or strict liability or other tortuous conduct of STERIS.

PC600035 Revision Level: AM BCN# 71402

Page 1 of 1

Effectivity Date: 03/31/2017

STERIS Corporation = 5960 Heisley Road = Mentor, OH 44060-1834 USA = 440-354-2600

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535	
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001	
Inc.	T=0	Page 14 of 37	



Sponsor: Tim Kessinger MegaDyne Medical Products, Inc. 11506 S. State St. Draper UT 84020

# Biological Indicator (BI) Sterility Test Final Report

Study Number: 1004458-S01

Test Article: Sterigenics Run #2084963

Purchase Order: 29512 Study Received Date: 20 Nov 2017

Testing Facility: Nelson Laboratories, LLC, a Business Unit of Sterigenics International

6280 S. Redwood Rd.

Salt Lake City, UT 84123 U.S.A.

Test Procedure(s): Standard Test Protocol (STP) Number: STP0079 Rev 16

Deviation(s): None

Summary: This BI sterility test was conducted to verify if any viable organisms remained on BIs used to monitor routine and/or validation cycles. All test method acceptance criteria were met.

Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

#### BI Information:

Туре	Manufacturer	Lot#	Expiration Date	Species Name	Minimum Incubation Time	Incubation Temperature
Spore Strip	STERIS	0397	08 Aug 2018	Bacillus atrophaeus	7 days	30-35°C

#### Results:

Туре	Number Tested	Number Positive	Number Negative
NLI-PCD-010	19	0	19
Environmental Control	1	0	1
Media Negative Control	1	0	1
Positive Control	1	1	0



Dania G. Cortes electronically approved for

Study Director Derek L. Miller

27 Nov 2017 11:54 AM

Study Completion Date and Time

P.O. Box 571830 | Murray, UT 84157-1830 U.S.A. - 6250 South Redwood Road | Self-Lake City, UT 84123-6500 U.S.A. www.netschiabs.com - Tylephory 501 250 7500 - Fax 801 250 7568 - sales@netschiabs.com - Tylephory 501 250 7500 - Fax 801 250 7568 - sales@netschiabs.com

Page 1 of 1

These results relate only to the test article lated in this report. Reports may not be reproduced except in their entirety. Bubliot to Ni, terms and conditions at www.netsaniabs.com

79W 2.0

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products, Inc.	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
	T=0	Page 15 of 37

2<sup>nd</sup> Exposure

The user must ensure that they are using the correct/current revision of this document. Document: OPER-FRM-016 Rev: 001 Effective: 12 Apr 2013 12:00 AM

Confidential - Controlled copy on date printed			5012AM 5012AM 5012AM 5014AD 5012AM 5014AM 5014AM 6034H	175839 ' 175839 ' 175803' 175799' 175878' 175985' 175989' 175989' 175961'	STERILIZATION STERILE QTV. 89 76 17,160 17,1	100 BOXES 34 65 21 2 71 60 69 6	DATE OUT	10/0 209872 don't	10
d copy of				and the same of th	1.0			00/	
Controlled	and EO Expose	16	ENG 785 N. ME725	T ZIPPE	N (2) SHO 323	6 13 12	20.17		,
fidential -	P/O#	29	S 91/2	19592 19592			MTE: 11 30		5
Con	COM	MENTS:_	TOTAL	1 # 211	boxes/	4 Path	ets		
		- 4		.%					
					*4				
	REV	ISION I	HISTORY						
		REVISION	DOCUMEN CHANGE OR NUBMER	RDER	TION OF CHANG	E	EFFEC DA	TE	
		A	00-134-0	Initial Relea			2000-0	09-21	
				Printed on: 17 Oct 2017	7, 06:50:45 am; Printer	by::EMCKENNA.			

Megadyne<br/>Medical<br/>Products,<br/>Inc.TEST REPORT<br/>ENG-RPT-535Document Number<br/>ENG-RPT-535ZIP ACE Modified, 6-Pack Ship Test Report,<br/>T=0Revision: 001<br/>Page 16 of 37



# Certificate or Processing

STERIGENICS 5725 Harold Gatty Drive Selt Lake City UT 84116 TEL 801 328-9901 FAX 801 328-9951 www.sterigenics.com

R55480101

12/10/2017 21:33:17 GMT Page 1 of 1

Customer Name: P.O.#	Megadyne 29591	Processing Facility:	Salt Lake City	Work Order # Sales Order #	2098746 1835318
Custon	ner kits	Cycle 115	Received Date/Time:	11/30/2017 18:03:5	

Line #	Qty	UOM	Description #1	Description #2	Pallet ID	Customer Load Number	Customer Lot No.	
101.000	1	PL	Customer kits-	Cycle 115	47944534	29591		-
102.000	1	PL.	Customer kits	Cycle 115	47944535	29591	NA.	
103.000	1	PL	Customer kits	Cycle 115	47944536	29591	NA.	
104.000	1	PL	Customer kits	Cyde 115	47944537		NA.	
	4	PL	Total	Cycle 113	4/24433/	29591	NA	

#### Processing Summary

Ope	Operation Name	Location			Date/Time In (GMT)	Data/Time Out (GMT)	Total Time (Hours)
100.00	RECEVING & LOAD PREP	UNPROC			11/30/2017 18:03:59	11/30/2017 18:45:23	
110.00	WAREHOUSE HOLD	HOLD			11/30/2017 18:45:23	12/06/2017 15:14:35	.60
120.00	PRECONDITIONING	P3LANE12			12/06/2017 15:14:35		140.49
130.00	TRANSFER TO CHAMBER	WORKAISL			12/07/2017 17:30:07	12/07/2017 17:30:07	26.26
200.00	CHAMBER	CHAMBER3			12/07/2017 17:39:57	12/07/2017 17:39:57	.16
230.00	TRANSFER TO AERATION	WORKAISL			12/08/2017 02:33:00	12/08/2017 02:33:00	8.86
300.00	AFRATION	AERATIONS				12/08/2017 02:42:30	.16
350.00	TRANSFER TO WAREHOUSE	PROC			12/08/2017 02:42:30	12/09/2017 20:12:05	41.49
399.00	REVIEW	PROC			12/09/2017 20:12:05	12/09/2017 20:48:22	.60
	Total Usage (to neare:		EO	55	12/09/2017 20:48:22 LB	12/09/2017 20:48:51	.01

#### **Quality Test Summary**

Quality Test Description Min So.		Ma O		· · · · · · Signed By · · · · · ·		
		Max Spec	Result	Pass/Fail	User	Date / Time
Place Bi's Per Specification	19 EA	19 EA	19 EA	Payss	VMCINTYRE	12/06/2017 15:15:15 GMT
8 HR Hold (Nov Apr.)	YES	YES	YES	Pass	VMCINTYRE	12/06/2017 15:15:22 GMT
Precon. Room Temp. Specs. Mat	YES	YES	YES	Pass	VALERIE MCINTYRE JMREYES	12/07/2017 17:33:57 GMT
Prec. Room RH Specs. Met	YES	YES	YES	Pass	JOSE REYES JMREYES	12/07/2017 17:34:09 GMT
Assiston Temperature Specs Mot	YES	YES	YES	Pass	JOSE REYES AESPINO	12/09/2017 20:13:14 GMT
Remove Brs Post Chamber	19 EA	19 EA	19 EA	Pass	ARMANDO ESPINO AESPINO	12/09/2017 20:49:41 GMT
	Precion, Room Temp, Specs, Mat Prec. Room RH Specs, Met Aerition Temperature Specs Met	Place Bi's Per Specification 19 EA 8 HR Hold (Nov Apr.) YES Precon. Room Temp. Specs. Met YES Prec. Room RH Specs. Met YES Asration Temperature Specs Met YES	Place Bi's Per Specification         19 EA         19 EA           8 HR Hold (Nov Apr.)         YES         YES           Precon. Room Temp. Specs. Met         YES         YES           Prec. Room RH Specs. Met         YES         YES           Aamion Temperature Specs Met         YES         YES	Place Bit's Per Specification         19 EA         19 EA         19 EA         19 EA           8 HR Hold (Nov Apr.)         YES         YES         YES           Piecon. Room Temp. Specs. Mat         YES         YES         YES           Piec. Room RH Specs. Met         YES         YES         YES           Asmison Temperature Specs Met         YES         YES         YES	Place Bit's Per Specification         19 EA         19 EA         19 EA         19 EA         19 EA         Pass           8 HR Hold (Nov Apr.)         YES         YES         YES         Pass           Precun, Room Temp. Specs. Mot         YES         YES         YES         Pass           Prec. Room RH Specs. Mot         YES         YES         YES         Pass           Asrañon Temperature Specs Mot         YES         YES         YES         Pass	Column   Feat   Description

The above products were processed according to the process specification requirements. All parameters reviewed were found to be in compliance with specifications.

Electronically Signed By: TONY VADNAIS
Reason: Work Order Completions

Date: 12/10/2017 21:22:54 GMT

ISO 9001 and ISO 13485 Registered

Megadyne<br/>Medical<br/>Products,<br/>Inc.TEST REPORT<br/>ENG-RPT-535Document Number<br/>ENG-RPT-535ZIP ACE Modified, 6-Pack Ship Test Report,<br/>T=0Revision: 001<br/>Page 17 of 37



Megadyne Medical Products, Inc. Work Order 2098746 2017-12-08



The Global Leader in Contract Sterilization Services

Megadyne Medical Products, Inc.

TEST REPORT	Document Number ENG-RPT-535
ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
T=0	Page 18 of 37

VeriCycle\*

Sterigenics.

WORK ORDER:

CYCLE

SALES ORDER: FACILITY:

Salt Lake City - Sterigenics

PURCHASE ORDER: CUSTOMER:

Megadyne Medical Products, Inc. 11506 South State Street

5725 Harold Gatty Drive Salt Lake City, UT 84116

Salt Lake City, UT 84020

United States

ITEM:

129\_115\_CH

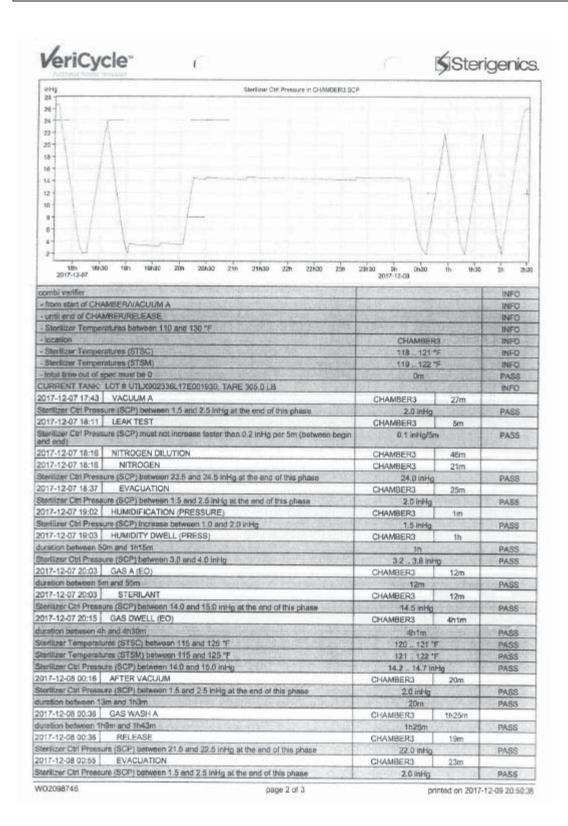
VERIFICATION RECIPE ID:

Qty	Description #1	Description #2	Pallet ID	Customer Load #	Customer Lot #
1 PL	Customer kits	Cycle 115	47944534	29591	NA
1 PL	Customer kits	Cycle 115	47944535	29591	NA
1 PL	Customer kits	Cycle 115	47944538	29591	NA
1 PL	Customer kits	Cycle 115	47944537	29591	NA
4 PL					-

2017-11-30 18:03 RECEVING & LOAD PREP	UNPROC	41m		
parts list total quantity between 3 and 7	BEATS EASIER BEGINNING FOR		PASS	
2017-11-30 18:45 WAREHOUSE HOLD	HOLD	5d20h29m	100	
duration at least 6h	5d20h29	m	PASS	
2017-12-06 15:14 PRECONDITIONING	P3LANE12	1d2h16m		
duration between 1d and 3d 1d2h16m				
combi verifier			INFO	
- from start of PRECONDITIONING			INFO	
- until end of PRECONDITIONING	A CALLED A 2000 CO SPERMENT OF		INFO	
- Precon Temperatures between 100 and 120 °F	The State State State State of the		INFO	
- Precon RHs between 45 and 75 %RH	STATE OF THE PARTY	A STATE OF THE PARTY OF THE PAR		
- location	P3LANE1	INFO		
- Precon Temperatures (PTSC)	109 _ 110	109 _ 110 °F		
- Precon Temperatures (PTSM)	109 _ 111	INFO		
- Precon RHs (PRHSC)	59 67 %	INFO		
- Precon RHs (PRHSM)	59 68 %	INFO		
- minimum 1d in spec	1d2h18n	PASS		
- maximum 30m out of spec (consecutive)	Om .	PASS		
Precon Temperatures (PTSC) at most 120 °F	109 110 °F		PASS	
Precon Temperatures (PTSM) at most 120 °F	109 111 °F		PASS	
Precon RHs (PRHSC) at most 75 %RH	59 67 %	59 67 %RH		
Precon RHs (PRHSM) at most 75 %RH	59 66 %	59 68 %RH		
2017-12-07 17:30 TRANSFER TO CHAMBER	WORKAISL	10m	10.	
duration at most 1h	10m		PASS	
2017-12-07 17:39 CHAMBER	CHAMBER3	8h53m		
cycle check value must be 6115	6115		PASS	

WO2098746

Megadyne<br/>Medical<br/>Products,<br/>Inc.TEST REPORT<br/>ENG-RPT-535Document Number<br/>ENG-RPT-535ZIP ACE Modified, 6-Pack Ship Test Report,<br/>T=0Revision: 001<br/>Page 19 of 37



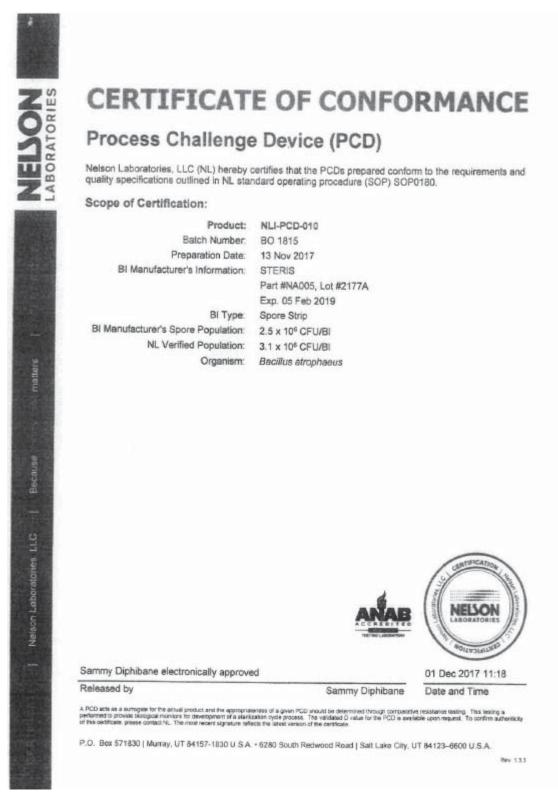
Megadyne<br/>Medical<br/>Products,<br/>Inc.TEST REPORTDocument Number<br/>ENG-RPT-535ZIP ACE Modified, 6-Pack Ship Test Report,<br/>T=0Revision: 001Page 20 of 37

2017-12-08 01:19 RELEASE	CHAMBER3	16	
		19m	PASS
Sterilizer Ctrl Pressure (SCP) between 21.5 and 22.5 inHg at the end of this phase 2017-12-08 01:38 EVACUATION	22.0 inf CHAMBER3	23m	PASS
Starlitzer Ctrl Pressure (SCP) between 1.5 and 2.5 inHg at the and of this phase	2,0 inHg		PASS
2017-12-08 02:01 RELEASE	CHAMBER3 23m		
Sterilizer Ctrl Pressure (SCP) between 24.7 and 25.8 initig at the end of this phase	24.6 ini-		PASS
2017-12-08 02:24 CYCLE COMPLETE	CHAMBER3	PASS	
Sterilant Usage Total (SUT) at least 0 to 5m before the start of this phase	65 lb	9m	PASS
2017-12-08 02:33 TRANSFER TO AERATION	WORKAISL	10m	PASS
2017-12-06 02:35   HONGFEN TO AERATION 2017-12-08 02:42   AERATION		1d17h30m	
duration between 1d and 3d	AERATION9 1d17h30	The second second second	PASS
combi verifier	101/830	rn .	INFO
- from start of AERATION			INFO
- units and of AERATION		200000000000000000000000000000000000000	INFO
- Aeration Temperatures between 100 and 120 °F			INFO
- Aeration Circulation between 85 and 115			INFO
- location	AERATIO	NO	INFO
- Aeration Temperatures (ATSC)	98 . 112 °F		INFO
- Aeration Temperatures (ATSM)	98 . 112 °F		INFO
- Aeration Circulation (AC1)	96_102		INFO
- minimum 1d in spec	1d17h27m		PASS
- maximum 30m out of epec (consecutive)	3m		PASS
Aeration Temperatures (ATSO) at most 120 °F	98 . 112 °F		PASS
Aeration Temperatures (ATSM) at most 120 °F	98 112	·F	PASS
2017-12-09 20:12 TRANSFER TO WAREHOUSE	PROC	36m	
2017-12-09 20:48 REVIEW	PROC	29s	
B HR Hold (Nov Apr.) (YES)	YES		PASS
Prec. Room RH Specs. Met (YES)	YES		PASS
Precon. Room Temp. Specs. Met (YES)	YES		PASS
Aeration Temperature Specs Met (YES)	YES		PASS
Remove BI's Post Chamber (19 EA)	19		PASS
Place BI's Per Specification (19 EA)	19	STATE OF STATE OF	PASS
RESULT OF VERIFICATION	THE RESERVE OF THE PARTY OF THE	PASS	30000

It is customers responsibility to ensure acceptance of any result other than PASS noted on this report prior to release of the load.

WO2098746 page 3 of 3 printed on 2017-12-09 20:50:38

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 21 of 37



**Document Number** Megadyne TEST REPORT ENG-RPT-535 Medical **Revision: 001** Products. ZIP ACE Modified, 6-Pack Ship Test Report, Inc. Page 22 of 37

CRM43650 Rcvd: 18 Oct 2017 Ambient Use By: 05 Feb 2019



#### STERIS Corporation Biological Operations Bacillus atrophaeus BIOLOGICAL INDICATOR CERTIFICATE OF PERFORMANCE Exhibit K

CATALOG NUMBER: NA005

PRODUCT NAME: Spordex Strip

PRODUCT LOT NUMBER: C17020

SUBASSEMBLY LOT NUMBER: 2177A

**EXPIRATION DATE: February 5, 2019** 

Bacillus atrophaeus NRRL B4418:

Mean Population Recovery\* (CFU): 2.5 x 106

Survival Time (Min.): 11.9

Deo Value\*\* (Min.\*\*\*): 2.7

Kill Time (Min.): 28.0

Don Value \*\* (Min. \*\*\*): 1.6

Survival Time (Min.): 7.1

Kill Time (Min.): 16.6

- Colony forming units determined after a preliminary heat treatment.
- \*\* 600±30mg/L EO using 100% EO, 54±1°C, 60±10% RH or 160±1°C Dry Heat
- \*\*\* Determined at time of manufacture by fraction negative procedure after graded exposure to sterilization conditions.

Incubate at 30° to 35°C for seven days

Store at 2" to 24°C and between 30% to 80% RH. Do not use after the indicated expiration date. Dispose of as you would any other microbiological waste (121 °C for a minimum of 30 minutes).

This document certifies that the biological indicator product listed above meets STERIS' quality assurance specifications and the performance criteria suggested by the current revision of the United States Pharmacopeia. This certifies that the product listed above has been tested in compliance with current versions of, ISO 11138-1, ISO 11138-2, and USP.

Quality Systems Representative:

LIMITATION OF LIABILITY AND INDEMNITY

Nothing in this Certificate of Performance shall, or is intended to, alter, expand, or diminish the terms and conditions of sale governing your purch: of the Biological Indicator Product from STERIS. In no event, whether as a result of breach of warranty, or sort (including negligence and strict liability) shall STERIS or its suppliers be liable as a result of any statement or information contained in this Contificate of Performance. In addition, STERIS shall not be liable for any consequential or incidental damages including, without limitation, loss of use or damage to your products or equipment, cost of substitute products, or down time costs, allegedly caused by the Biological Indicators Products. The responsibility of STERIS for

PC600035 Revision Level: AN ECN# 76462 Effectivity Date: 09/22/2017

Page I of I

STERIS Corporation - 5960 Heisley Road - Mentor, OH 44060-1834 USA - 440-354-2600

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 23 of 37



Sponsor: Tim Kessinger MegaDyne Medical Products, Inc. 11506 S. State St. Draper UT 84020

# Biological Indicator (BI) Sterility Test Final Report

Study Number: 1008255-S01

Test Article: Sterigenics Run #2098746

Purchase Order: 29592

Study Received Date: 10 Dec 2017

Testing Facility: Nelson Laboratories, LLC, a Business Unit of Sterigenics International

6280 S. Redwood Rd.

Salt Lake City, UT 84123 U.S.A.

Test Procedure(s): Standard Test Protocol (STP) Number: STP0079 Rev 16

Deviation(s): None

Summary: This BI sterility test was conducted to verify if any viable organisms remained on BIs used to monitor routine and/or validation cycles. All test method acceptance criteria were met.

Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

#### BI Information:

Туре	Manufacturer	Lot#	Expiration Date	Species Name	Minimum Incubation Time	Incubation Temperature
Spore Strip	STERIS	2177A	05 Feb 2019	Bacillus atrophaeus	7 days	30-35°C

#### Results:

Туре	Number Tested	Number Positive	Number Negative
NLI-PCD-010	19	0	19
Environmental Control	1	0	1
Media Negative Control	1	0	1
Positive Control	1	1	0



Derek L. Miller electronically approved

Study Director

Derek L. Miller

17 Dec 2017 03:46 PM Study Completion Date and Time

Page 1 of 1

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 24 of 37

# 9. APPENDIX II - PRECONDITIONING AND SHIP TESTING

Megadyne	TEST PROTOCOL	Document Number XENG-PRT-441
Medical Products, Inc.	ZIP ACE Modified Product 6-Pack Ship Test	Revision: A
r roducis, inc.	Protocol	Page 11 of 17

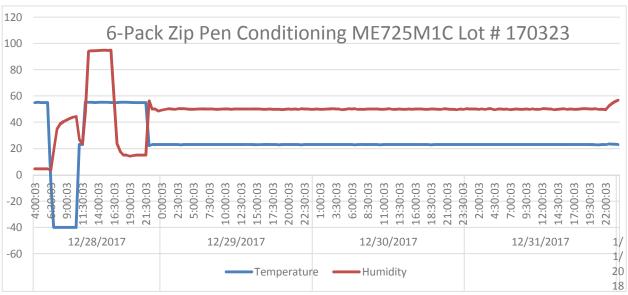
#### 10. APPENDIX I - THERMAL CYCLE DATA

#### Appendix I: Thermal Cycle Data

Maximum Temperature ( <sup>0</sup> C):	55.7C	
Maximum Temperature (C).		
Minimum Temperature (°C):	-40.1C	
Minimum Temperature (°C):		
Maximum Temperature (%RH):	47-6%	
Minimum Temperature (%RH):	43.9%	
Chamber conditions held @ -40°C	6:45 to 10:45 12/16/17	
and no humidity control for a		
duration of 4 hours:	yes on 12-28-2017	
Chamber conditions held @ 55°C and 95%RH for a duration of 4	12:45 to 16:45 12/18/17	
hours:	yes on 12-28-2017	
11041101		7
Chamber conditions held @ 55°C and 15%RH for a duration of 4	17:45to 21:45 on 12/28/1	T
hours:	yes on 12-28-2017	
Chamber conditions held @ 23°C	VES ON 12-20 2011	m 12/21
and 50%RH for a duration of 72	12:30 on 12/26/17 to 13:5	d ICINITA
hours:	yes, from 12-28-2017 to 12-31-2017.	
	,	
Paul Valpreda	Yauf Valoreda 1-12-2018	
Test Technic an Name	Paul Valpresla (-12-2018 Signature Date	
Tyler Skinner	Jyl 21. 2018	
Engineer Name	Signature Date	
42012	5-31-2018	
Thermotron SN	Calibration Due Date	

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 25 of 37

# **Graph**



# Raw Data

Date	Time	Air	Humidity
		Temp	
12/28/2017	4:00:03	55	4.5
	4:30:03	55.1	4.5
	5:00:03	55	4.5
	5:30:03	55	4.5
	6:00:03	55	4.5
	6:30:03	-4.8	3.9
	7:00:03	-40	19.1
	7:30:03	-40	34.9
	8:00:03	-40	38.9
	8:30:03	-40	40.6
	9:00:03	-40	41.9
	9:30:03	-40	43
	10:00:03	-40.1	43.9
	10:30:03	-40	44.4
	11:00:03	23.2	26.6
	11:30:03	23	23.8
	12:00:03	55.7	47.6
	12:30:03	55.2	94.1
	13:00:03	55.1	94.4

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 26 of 37

13:30:03       55       94.5         14:00:03       55.1       94.7         14:30:03       55.1       94.6         15:00:03       55.1       94.8         15:30:03       55.1       94.7         16:00:03       55       94.8         16:30:03       55       94.8         16:30:03       55       94.8         16:30:03       55       23.6         17:30:03       55       23.6         17:30:03       55.1       17.6         18:00:03       55.1       15         18:30:03       55.1       15.1         19:00:03       55.1       14.4         19:30:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       14.9         21:00:03       55       14.9         22:30:03       23       50         23:30:03       23       50         23:30:03       23       49.4         0:30:03       23       49.9         1:00:03       23       49.9         1:30:03       23       50.2				
14:30:03       55.1       94.8         15:00:03       55.1       94.8         15:30:03       55.1       94.7         16:00:03       55       94.8         16:30:03       55       94.8         16:30:03       55       94.8         16:30:03       55       23.6         17:00:03       55       23.6         17:30:03       55.1       17.6         18:00:03       55.1       15         18:30:03       55.1       15.1         19:00:03       55.1       14.4         19:30:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       14.9         22:00:03       23       50         23:00:03       23       50         23:00:03       23       50         23:30:03       23       49.4         0:30:03       23       49.9         1:00:03       23       49.9         2:30:03       23       50.2         3:30:03       23       50.2         3:30:03       23       50.3		13:30:03	55	94.5
15:00:03         55.1         94.8           15:30:03         55.1         94.7           16:00:03         55         94.8           16:30:03         55         57.1           17:00:03         55         23.6           17:30:03         55.1         17.6           18:00:03         55.1         15.1           19:00:03         55.1         14.4           19:30:03         55         14.8           20:00:03         55         14.9           21:00:03         55         14.9           21:00:03         55         14.9           22:00:03         25         14.9           22:00:03         25         14.9           22:30:03         23         50           23:00:03         23         50           23:30:03         23         49.4           0:30:03         23         49.9           1:00:03         23         49.9           1:00:03         23         50.2           1:30:03         23         50.2           1:30:03         23         50.2           3:00:03         23         49.9           2:30:03         <		14:00:03	55.1	94.7
15:30:03       55.1       94.8         16:00:03       55       94.8         16:30:03       55       57.1         17:00:03       55       23.6         17:30:03       55.1       17.6         18:00:03       55.1       15         18:30:03       55.1       15.1         19:00:03       55.1       14.4         19:30:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       50         23:30:03       23       49.4         0:30:03       23       49.9         1:00:03       23       49.9         1:30:03       23       50.2         1:30:03       23       50.2         3:00:03       23       50.2         3:00:03       23       50.2         3:00:03       23       50.2         3:00:03       23       50.2         3:00:03       23       50.3		14:30:03	55.1	94.6
16:00:03       55       94.8         16:30:03       55       57.1         17:00:03       55       23.6         17:30:03       55.1       17.6         18:00:03       55.1       15         18:30:03       55.1       15.1         19:00:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       14.9         21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       50         23:30:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         1:30:03       23       50.2         2:00:03       23       50.2         3:00:03       23       50.2         3:00:03       23       50.2         3:30:03       23       50.2         3:30:03       23       50.3         4:30:03       23       50.1 <t< td=""><td></td><td>15:00:03</td><td>55.1</td><td>94.8</td></t<>		15:00:03	55.1	94.8
16:30:03       55       57.1         17:00:03       55       23.6         17:30:03       55.1       17.6         18:00:03       55.1       15         18:30:03       55.1       15.1         19:00:03       55.1       14.4         19:30:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       15         21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:30:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         1:30:03       23       50.2         3:00:03       23       50.2         3:30:03       23       50.2         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       50.1         6:00:03       23       50.1 <td></td> <td>15:30:03</td> <td>55.1</td> <td>94.7</td>		15:30:03	55.1	94.7
17:00:03       55       23.6         17:30:03       55.1       17.6         18:00:03       55.1       15         18:30:03       55.1       15.1         19:00:03       55.1       14.4         19:30:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       50         23:30:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         1:30:03       23       50.2         3:00:03       23       49.9         2:30:03       23       50.1         4:30:03       23       50.1         4:30:03       23       50.1         4:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1		16:00:03	55	94.8
17:30:03       55.1       17.6         18:00:03       55.1       15         18:30:03       55.1       15.1         19:00:03       55.1       14.4         19:30:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       15         21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:30:03       23       50         23:30:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         2:00:03       23       49.9         2:30:03       23       50.2         3:00:03       23       50.2         3:00:03       23       50.3         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       50.1         5:30:03       23       50.1         6:30:03       23       50.1 <t< td=""><td></td><td>16:30:03</td><td>55</td><td>57.1</td></t<>		16:30:03	55	57.1
18:00:03       55.1       15         18:30:03       55.1       15.1         19:00:03       55.1       14.4         19:30:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       50         23:30:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         1:30:03       23       50.2         2:30:03       23       50.2         3:30:03       23       50.2         3:30:03       23       50.2         3:30:03       23       50.3         4:00:03       23       50.1         4:30:03       23       50.1         4:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1     <		17:00:03	55	23.6
18:30:03       55.1       15.1         19:00:03       55.1       14.4         19:30:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       15         21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       50         23:30:03       23       48.7         12/29/2017       0:00:03       23       49.9         1:00:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         2:30:03       23       50.2         3:00:03       23       49.9         2:30:03       23.1       50.3         3:30:03       23.1       50.3         4:00:03       23       49.9         5:00:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         6:30:03       23       50     <		17:30:03	55.1	17.6
19:00:03       55.1       14.4         19:30:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       15         21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       50         23:30:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         2:30:03       23       50.2         3:00:03       23       49.9         2:30:03       23       50.2         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:00:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         7:00:03       23       50		18:00:03	55.1	15
19:30:03       55       14.8         20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       15         21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       50         23:30:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         1:30:03       23       50.2         2:30:03       23       50.2         3:00:03       23       50.2         3:00:03       23.9       50.3         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:00:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         6:30:03       23       50.1         7:00:03       23       50         7:00:03<		18:30:03	55.1	15.1
20:00:03       55       15.1         20:30:03       55       14.9         21:00:03       55       15         21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         2:00:03       23       49.9         2:30:03       23       50.2         3:00:03       23       50.2         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:00:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         6:30:03       23       50.1         7:00:03       23       50		19:00:03	55.1	14.4
20:30:03       55       14.9         21:00:03       55       15         21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:30:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         2:30:03       23       50.2         3:00:03       23       49.9         2:30:03       23       50.2         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:30:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         6:30:03       23       50         7:00:03       23       50         7:30:03       23       50		19:30:03	55	14.8
21:00:03       55       15         21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         2:00:03       23       49.9         2:30:03       23       50.2         3:00:03       23       50.2         3:00:03       23       50.2         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:00:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         6:30:03       23       50         7:00:03       23       50         7:30:03       23       50		20:00:03	55	15.1
21:30:03       55       14.9         22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       50         23:30:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50.2         2:00:03       23       49.9         2:30:03       23.1       50.3         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         6:30:03       23       50.1         7:00:03       23       50         7:30:03       23       50		20:30:03	55	14.9
22:00:03       22.3       56.5         22:30:03       23       50         23:00:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50         2:00:03       23       49.9         2:30:03       23       50.2         3:00:03       22.9       50.3         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:30:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         7:00:03       23       50         7:30:03       23       50		21:00:03	55	15
22:30:03       23       50         23:00:03       23       50         23:30:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       49.9         2:30:03       23       50.2         3:00:03       22.9       50.3         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:00:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         7:00:03       23       50         7:30:03       23       50		21:30:03	55	14.9
23:00:03       23       50         23:30:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50         2:00:03       23       49.9         2:30:03       23       50.2         3:00:03       22.9       50.3         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:00:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50         7:00:03       23       50         7:30:03       23       50		22:00:03	22.3	56.5
23:30:03       23       48.7         12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50         2:00:03       23       49.9         2:30:03       23       50.2         3:00:03       22.9       50.3         4:00:03       23.1       50.3         4:30:03       23       50.1         4:30:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         6:30:03       23       50         7:00:03       23       50         7:30:03       23       50		22:30:03	23	50
12/29/2017       0:00:03       23       49.4         0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50         2:00:03       23       49.9         2:30:03       23       50.2         3:00:03       22.9       50.3         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50.1         6:30:03       23       50         7:00:03       23       50         7:30:03       23       50		23:00:03	23	50
0:30:03       23       49.9         1:00:03       23       50.2         1:30:03       23       50         2:00:03       23       49.9         2:30:03       23       50.2         3:00:03       22.9       50.3         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50         7:00:03       23       50         7:30:03       23       50         7:30:03       23       50		23:30:03	23	48.7
1:00:03     23     50.2       1:30:03     23     50       2:00:03     23     49.9       2:30:03     23     50.2       3:00:03     22.9     50.3       3:30:03     23.1     50.3       4:00:03     23     50.1       4:30:03     23     49.9       5:00:03     23     49.9       5:30:03     23     50.1       6:00:03     23     50.1       6:30:03     23     50       7:00:03     23     50       7:30:03     23     50       7:30:03     23     50	12/29/2017	0:00:03	23	49.4
1:30:03     23     50       2:00:03     23     49.9       2:30:03     23     50.2       3:00:03     22.9     50.3       3:30:03     23.1     50.3       4:00:03     23     50.1       4:30:03     23     49.9       5:00:03     23     49.9       5:30:03     23     50.1       6:00:03     23     50.1       6:30:03     23     50       7:00:03     23     50       7:30:03     23     50		0:30:03	23	49.9
2:00:03       23       49.9         2:30:03       23       50.2         3:00:03       22.9       50.3         3:30:03       23.1       50.3         4:00:03       23       50.1         4:30:03       23       49.9         5:00:03       23       49.9         5:30:03       23       50.1         6:00:03       23       50.1         6:30:03       23       50         7:00:03       23       50         7:30:03       23       50		1:00:03	23	50.2
2:30:03     23     50.2       3:00:03     22.9     50.3       3:30:03     23.1     50.3       4:00:03     23     50.1       4:30:03     23     49.9       5:00:03     23     49.9       5:30:03     23     50.1       6:00:03     23     50.1       6:30:03     23     50       7:00:03     23     50       7:30:03     23     50		1:30:03	23	50
3:00:03     22.9     50.3       3:30:03     23.1     50.3       4:00:03     23     50.1       4:30:03     23     49.9       5:00:03     23     49.9       5:30:03     23     50.1       6:00:03     23     50.1       6:30:03     23     50       7:00:03     23     50       7:30:03     23     50		2:00:03	23	49.9
3:30:03     23.1     50.3       4:00:03     23     50.1       4:30:03     23     49.9       5:00:03     23     49.9       5:30:03     23     50.1       6:00:03     23     50.1       6:30:03     23     50       7:00:03     23     50       7:30:03     23     50		2:30:03	23	50.2
4:00:03     23     50.1       4:30:03     23     49.9       5:00:03     23     49.9       5:30:03     23     50.1       6:00:03     23     50.1       6:30:03     23     50       7:00:03     23     50       7:30:03     23     50		3:00:03	22.9	50.3
4:30:03     23     49.9       5:00:03     23     49.9       5:30:03     23     50.1       6:00:03     23     50.1       6:30:03     23     50       7:00:03     23     50       7:30:03     23     50		3:30:03	23.1	50.3
5:00:03     23     49.9       5:30:03     23     50.1       6:00:03     23     50.1       6:30:03     23     50       7:00:03     23     50       7:30:03     23     50		4:00:03	23	50.1
5:30:03     23     50.1       6:00:03     23     50.1       6:30:03     23     50       7:00:03     23     50       7:30:03     23     50		4:30:03	23	49.9
6:00:03 23 50.1 6:30:03 23 50 7:00:03 23 50 7:30:03 23 50		5:00:03	23	49.9
6:30:03 23 50 7:00:03 23 50 7:30:03 23 50		5:30:03	23	50.1
7:00:03 23 50 7:30:03 23 50		6:00:03	23	50.1
7:30:03 23 50		6:30:03	23	50
		7:00:03	23	50
8:00:03 23 50		7:30:03	23	50
		8:00:03	23	50

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 27 of 37

8:30:03       23.1       49.9         9:00:03       23       49.9         9:30:03       23       50.1         10:00:03       23.1       50         11:00:03       23       49.8         11:30:03       23       50.1         12:00:03       23       50         13:00:03       23       50         13:30:03       23       50         13:30:03       23       50.1         14:00:03       23       50.1         14:30:03       23       50.1         14:30:03       23       50.1         14:30:03       23       50.1         15:00:03       22.9       50         15:30:03       23       50         15:30:03       23       49.8         16:00:03       23       49.8         17:00:03       23       49.9         17:00:03       23       49.8         18:30:03       23       49.8         19:00:03       23       49.8         19:00:03       23       49.9         20:00:03       23       49.9         21:00:03       23       50.1 <td< th=""><th></th><th></th><th></th><th></th></td<>				
9:30:03       23       50.1         10:00:03       23.1       50         10:30:03       23       50         11:00:03       23       49.8         11:30:03       23       50.1         12:00:03       23       50         12:30:03       23       50         13:00:03       23       50.1         14:00:03       23       50.1         14:30:03       23       50.1         14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       50         15:30:03       23       49.8         16:00:03       23       49.9         17:00:03       23       49.9         18:00:03       23       49.9         18:00:03       23       49.8         19:00:03       23       49.9         19:30:03       23       49.9         20:00:03       23       49.9         20:00:03       23       49.9         21:00:03       23       49.9         21:00:03       23       49.9         21:00:03       23       50.1         2		8:30:03	23.1	49.9
10:00:03       23.1       50         10:30:03       23       49.8         11:00:03       23       50.1         12:00:03       23       50         12:30:03       23       50         12:30:03       23       50         13:00:03       23       50.1         14:00:03       23       50.1         14:30:03       23       50.1         14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       50         16:00:03       23       49.8         16:30:03       23       49.9         17:00:03       23       49.9         18:00:03       23       49.9         18:00:03       23       49.9         19:30:03       23       49.9         20:00:03       23       49.9         20:00:03       23       49.9         21:00:03       23       49.9         21:00:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:30:03       23       50.1		9:00:03	23	49.9
10:30:03       23       49.8         11:00:03       23       50.1         12:00:03       23       50         12:30:03       23       50         12:30:03       23       50         13:00:03       23       50.1         14:00:03       23       50.1         14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       50         15:30:03       23       49.8         16:00:03       23       49.8         16:30:03       23       49.9         17:00:03       23       49.9         18:00:03       23       49.8         18:00:03       23       49.8         19:00:03       23       49.8         19:30:03       23       49.9         20:00:03       23       49.9         20:30:03       23       49.9         21:00:03       23       49.9         21:00:03       23       49.9         21:00:03       23       50.1         21:30:03       23       50.1         21:30:03       23       50.1		9:30:03		50.1
11:00:03       23       49.8         11:30:03       23       50.1         12:00:03       23       50         12:30:03       23       50         13:00:03       23       50.1         14:00:03       23       50.1         14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       50         15:30:03       23       49.8         16:00:03       23       49.9         17:00:03       23       49.9         18:00:03       23       49.9         18:30:03       22.9       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       50.1         21:30:03       23       50.1         21:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       50.1		10:00:03	23.1	50
11:30:03       23       50.1         12:00:03       23       50         12:30:03       23       50         13:00:03       23       50.1         14:00:03       23       50.1         14:30:03       23       50.1         14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       49.8         16:00:03       23       49.9         17:00:03       23       49.9         17:30:03       23       49.9         18:00:03       23       49.8         19:00:03       23       49.8         19:00:03       23       49.8         19:30:03       23       49.9         20:00:03       23       49.9         20:00:03       23       49.9         21:00:03       23       50.1         21:30:03       23       50.1         21:30:03       23       50.1         21:30:03       23       50.1         22:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9		10:30:03	23	50
12:00:03       23       50         12:30:03       23       50         13:00:03       23       50.1         14:00:03       23       50.1         14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       50         16:00:03       23       49.8         16:30:03       23       49.9         17:00:03       23       49.9         18:00:03       23       49.8         18:00:03       23       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       49.9         21:00:03       23       49.9         21:30:03       23       49.9         21:30:03       23       50.1         21:30:03       23       50.1         21:30:03       23       50.1         21:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9		11:00:03	23	49.8
12:30:03       23       50         13:00:03       23       50.1         14:00:03       23       50.1         14:30:03       23       50.1         14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       49.8         16:00:03       23       49.9         17:00:03       23       50.1         17:30:03       23       49.9         18:00:03       23       49.8         18:30:03       22.9       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       50         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:00:03       22.9       50.3         22:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:30:03       23       49.9 <td></td> <td>11:30:03</td> <td>23</td> <td>50.1</td>		11:30:03	23	50.1
13:00:03       23       50         13:30:03       23       50.1         14:00:03       23       50.1         14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       50         16:00:03       23       49.8         16:30:03       23       49.9         17:00:03       23       49.9         18:00:03       23       49.8         19:00:03       23       49.8         19:00:03       23       49.8         19:30:03       23       49.9         20:00:03       23       49.9         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       50.1         21:30:03       23       50.1         22:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:30:03       23       49.9         1:30:03       23       49.9		12:00:03	23	50
13:30:03       23       50.1         14:00:03       23       50.1         14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       50         16:00:03       23       49.8         16:30:03       23       49.9         17:00:03       23       49.9         18:00:03       23       49.8         18:30:03       22.9       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       50         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       50.1         21:30:03       23       50.1         21:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:30:03       23       49.9         1:30:03       23       49.9		12:30:03	23	50
14:00:03       23       50.1         14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       50         16:00:03       23       49.8         16:30:03       23       49.9         17:00:03       23       49.9         18:00:03       23       49.8         18:30:03       22.9       49.8         19:00:03       23       49.9         20:00:03       23       49.9         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:00:03       22.9       50.3         22:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:30:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50.1 <td></td> <td>13:00:03</td> <td>23</td> <td>50</td>		13:00:03	23	50
14:30:03       23       50         15:00:03       22.9       50         15:30:03       23       50         16:00:03       23       49.8         16:30:03       23       49.9         17:00:03       23       49.9         18:00:03       23       49.8         18:30:03       22.9       49.8         19:00:03       23       49.9         20:00:03       23       49.9         20:00:03       23       50         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:00:03       22.9       50.3         22:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:30:03       23       49.9         1:30:03       23       49.9         2:30:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1		13:30:03	23	50.1
15:00:03       22.9       50         15:30:03       23       50         16:00:03       23       49.8         16:30:03       23       49.9         17:00:03       23       50.1         17:30:03       23       49.9         18:00:03       23       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       50         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:00:03       23       49.9         1:30:03       23       49.9         1:30:03       23       49.9         2:200:03       23       50         1:230:03       23       50		14:00:03	23	50.1
15:30:03       23       50         16:00:03       23       49.8         16:30:03       23       49.9         17:00:03       23       50.1         17:30:03       23       49.9         18:00:03       23       49.8         18:30:03       22.9       49.8         19:00:03       23       49.9         20:00:03       23       50         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:00:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1		14:30:03	23	50
16:00:03       23       49.8         16:30:03       23       49.9         17:00:03       23       50.1         17:30:03       23       49.9         18:00:03       23       49.8         18:30:03       22.9       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       50         21:00:03       23       50.1         21:30:03       23       49.9         22:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:00:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1		15:00:03	22.9	50
16:30:03       23       49.9         17:00:03       23       50.1         17:30:03       23       49.9         18:00:03       23       49.8         18:30:03       22.9       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       50         21:00:03       23       50.1         21:30:03       23       49.9         22:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:00:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1		15:30:03	23	50
17:00:03       23       50.1         17:30:03       23       49.9         18:00:03       23       49.8         18:30:03       22.9       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       50         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       50.1         22:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:00:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1		16:00:03	23	49.8
17:30:03       23       49.9         18:00:03       23       49.8         18:30:03       22.9       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       50         21:00:03       23       50.1         21:30:03       23       49.9         22:00:03       22.9       50.3         22:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:00:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1		16:30:03	23	49.9
18:00:03       23       49.8         18:30:03       22.9       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       50         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:00:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1		17:00:03	23	50.1
18:30:03       22.9       49.8         19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       50         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:00:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50.1		17:30:03	23	49.9
19:00:03       23       49.7         19:30:03       23       49.9         20:00:03       23       50         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:00:03       22.9       50.3         22:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         1:00:03       23       49.9         1:30:03       23       49.9         1:30:03       23       50.1         2:30:03       23       50.1         2:30:03       23       50.1		18:00:03	23	49.8
19:30:03       23       49.9         20:00:03       23       50         20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:00:03       22.9       50.3         22:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         0:30:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50.1		18:30:03	22.9	49.8
20:00:03     23     50       20:30:03     23     49.9       21:00:03     23     50.1       21:30:03     23     49.9       22:00:03     22.9     50.3       22:30:03     23     50.1       23:00:03     23     50.1       23:30:03     23     49.9       12/30/2017     0:00:03     23     49.9       0:30:03     23     49.9       1:30:03     23     49.9       2:00:03     23     50.1       2:30:03     23     50.1       2:30:03     23     50.1		19:00:03	23	49.7
20:30:03       23       49.9         21:00:03       23       50.1         21:30:03       23       49.9         22:00:03       22.9       50.3         22:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         0:30:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50.1		19:30:03	23	49.9
21:00:03     23     50.1       21:30:03     23     49.9       22:00:03     22.9     50.3       22:30:03     23     50.1       23:00:03     23     50.1       23:30:03     23     49.9       12/30/2017     0:00:03     23     49.9       0:30:03     23     50       1:00:03     23     49.9       1:30:03     23     49.9       2:00:03     23     50.1       2:30:03     23     50.1		20:00:03	23	50
21:30:03       23       49.9         22:00:03       22.9       50.3         22:30:03       23       50.1         23:00:03       23       50.1         23:30:03       23       49.9         12/30/2017       0:00:03       23       49.9         0:30:03       23       50         1:00:03       23       49.9         1:30:03       23       49.9         2:00:03       23       50.1         2:30:03       23       50		20:30:03	23	49.9
22:00:03     22.9     50.3       22:30:03     23     50.1       23:00:03     23     50.1       23:30:03     23     49.9       12/30/2017     0:00:03     23     49.9       0:30:03     23     50       1:00:03     23     49.9       1:30:03     23     49.9       2:00:03     23     50.1       2:30:03     23     50		21:00:03	23	50.1
22:30:03     23     50.1       23:00:03     23     50.1       23:30:03     23     49.9       12/30/2017     0:00:03     23     49.9       0:30:03     23     50       1:00:03     23     49.9       1:30:03     23     49.9       2:00:03     23     50.1       2:30:03     23     50		21:30:03	23	49.9
23:00:03 23 50.1 23:30:03 23 49.9 12/30/2017 0:00:03 23 49.9 0:30:03 23 50 1:00:03 23 49.9 1:30:03 23 49.9 2:00:03 23 50.1 2:30:03 23 50.1		22:00:03	22.9	50.3
23:30:03 23 49.9 12/30/2017 0:00:03 23 49.9 0:30:03 23 50 1:00:03 23 49.9 1:30:03 23 49.9 2:00:03 23 50.1 2:30:03 23 50		22:30:03	23	50.1
12/30/2017     0:00:03     23     49.9       0:30:03     23     50       1:00:03     23     49.9       1:30:03     23     49.9       2:00:03     23     50.1       2:30:03     23     50		23:00:03	23	50.1
0:30:03     23     50       1:00:03     23     49.9       1:30:03     23     49.9       2:00:03     23     50.1       2:30:03     23     50		23:30:03	23	49.9
1:00:03     23     49.9       1:30:03     23     49.9       2:00:03     23     50.1       2:30:03     23     50	12/30/2017	0:00:03	23	49.9
1:30:03 23 49.9 2:00:03 23 50.1 2:30:03 23 50		0:30:03	23	50
2:00:03 23 50.1 2:30:03 23 50		1:00:03	23	49.9
2:30:03 23 50		1:30:03	23	49.9
		2:00:03	23	50.1
3:00:03 23 50.2		2:30:03	23	50
		3:00:03	23	50.2

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 28 of 37

3:30:03	23	50
4:00:03	23	50
4:30:03	23	49.7
5:00:03	23	49.9
5:30:03	23	50.3
6:00:03	23	50.1
6:30:03	22.9	50.4
7:00:03	23	49.9
7:30:03	23.1	49.8
8:00:03	23	49.9
8:30:03	23	50
9:00:03	23	50
9:30:03	23	50.1
10:00:03	23	50
10:30:03	22.9	49.9
11:00:03	23	49.9
11:30:03	23	50.1
12:00:03	23	50.4
12:30:03	23	49.9
13:00:03	23	49.9
13:30:03	23	50.1
14:00:03	23	49.8
14:30:03	23	49.9
15:00:03	23	50.1
15:30:03	23	49.9
16:00:03	23	50
16:30:03	23	50.1
17:00:03	23	50
17:30:03	23	49.9
18:00:03	23	49.8
18:30:03	22.9	50.1
19:00:03	23	50.1
19:30:03	23	49.9
20:00:03	23	49.8
20:30:03	23	50.2
21:00:03	23.1	50.1
21:30:03	23	49.8
22:00:03	23	49.9
·		

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 29 of 37

	T	1	r
	22:30:03	23	49.7
	23:00:03	23	50
	23:30:03	23	49.9
12/31/2017	0:00:03	23	50.3
	0:30:03	23	50
	1:00:03	23	50
	1:30:03	23	50
	2:00:03	23	49.8
	2:30:03	23	50.2
	3:00:03	23	49.9
	3:30:03	23	50.3
	4:00:03	23	50.3
	4:30:03	23	49.7
	5:00:03	23	50
	5:30:03	23	50.1
	6:00:03	23	49.9
	6:30:03	23.1	50
	7:00:03	23	49.7
	7:30:03	23	49.9
	8:00:03	23	50.1
	8:30:03	23	49.9
	9:00:03	23	49.8
	9:30:03	23	50.1
	10:00:03	23	49.9
	10:30:03	23	50.3
	11:00:03	23	49.9
	11:30:03	23	49.8
	12:00:03	23	50.2
	12:30:03	23	50.3
	13:00:03	23	50
	13:30:03	23	50
	14:00:03	23	49.6
	14:30:03	23	49.9
	15:00:03	23	50
	15:30:03	23	50.3
	16:00:03	23	49.9
	16:30:03	23	50
	17:00:03	23	49.8

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 30 of 37

17:30:03	23	49.9
18:00:03	23	50
18:30:03	23	50.2
19:00:03	23	50.3
19:30:03	23	50.1
20:00:03	23	50
20:30:03	22.9	50.2
21:00:03	22.9	49.9
21:30:03	23	49.9
22:00:03	23.1	49.7
22:30:03	23.5	52.2
23:00:03	23.4	54.3
23:30:03	23.2	55.6
0:00:03	23	56.8
	18:00:03 18:30:03 19:00:03 19:30:03 20:00:03 20:30:03 21:30:03 22:30:03 23:30:03 23:30:03	18:00:03     23       18:30:03     23       19:00:03     23       19:30:03     23       20:00:03     23       20:30:03     22.9       21:00:03     22.9       21:30:03     23       22:00:03     23.1       22:30:03     23.5       23:00:03     23.4       23:30:03     23.2

Megadyne<br/>Medical<br/>Products,<br/>Inc.TEST REPORT<br/>ENG-RPT-535Document Number<br/>ENG-RPT-535ZIP ACE Modified, 6-Pack Ship Test Report,<br/>T=0Revision: 001<br/>Page 31 of 37

Megadyne	TEST PROTOCOL	Document Number XENG-PRT-441
Medical	ZIP ACE Modified Product 6-Pack Ship Test	Revision: A
Products, Inc.	Protocol	Page 12 of 17

#### 11. APPENDIX II - SHIPPING TEST

#### Preconditioning:

Start Date: 12-28-2018 Chamber Number: 01268

Completion Date: 12-31-2018 Last Calibration: 5-23-2017

Signature/Date: Paul Valoreda Calibration due: 5-31-2018

Drop Test:

Catalog Number: ME125M1C Weight: 3.5 lbs. Drop Height: 15"

Drop Sequence	Orientation	Specific face, edge or corner	Initials/Date
1	Тор	Face 1	PV 1-9-18
2	Edge	Edge 5-3	PV 1-9-18
3	Edge	Edge 6-3	PV (-9-18
4	Corner	Corner 2-3-5	DV 1-9-18
5	Corner	Corner 4-3-6	PV 1-9-18
6	Bottom	Face 3	PV 1-9-18

Comments:

Signature: Paul alpreda Date: 1-9-2018

Compression Test:

Catalog Number: ME725 M1C Pounds Force: 200

Comments: Passed.

Signature: Paul Valpuda Date: 1-9-2018

Possession of this document is an acknowledgment that the contents herein are the exclusive property of Megadyne Medical Products, Inc. This document may not be reproduced in any form whatsoever without written permission from Megadyne. The user of this document must ensure that they are using the most current revision of this document.

Printed on: 23 Jan 2018, 10:41:20 am; Printed by: TSKINNER.

Megadyne<br/>Medical<br/>Products,<br/>Inc.TEST REPORT<br/>ENG-RPT-535Document Number<br/>ENG-RPT-535ZIP ACE Modified, 6-Pack Ship Test Report,<br/>T=0Revision: 001Page 32 of 37

Megadyne	TEST PROTOCOL	Document Number XENG-PRT-441
Medical Products, Inc.	ZIP ACE Modified Product 6-Pack Ship Test	Revision: A
1 roducts, met	Protocol	Page 13 of 17

#### Appendix II Continued Shipping Test Log Sheet

The state of the s	
Vibration:	
Low Frequency, 40 minutes, Initials: PV	
High frequency 10 minutes, Initials: PV	
Completion Date: \ - 9 - 2 p \ \ 8	
Signature: Paul Valgreda	Date: 1-9-2018
Concentrated Impact Test:	
Completion Date: 1-9-2018	
Signature: <u>Paul Val presla</u>	Date: 1-9-2018
Second Drop Test:	
Catalog Number: ME125M1C Weight: 3.5 1bs	. Drop Height: 15"+30'

Drop Sequence	Orientation	Specific face, edge or corner	Initials/Date
1	Edge	Edge 4-6	PV 1-9-18
2	Face	Face 4	PV 1-9-18
3	Face	Face 6	PV 1-9-18
4	Corner	Corner 2-1-5	PV 1-9-18
5	Edge	Edge 2-1	PV 1-9-18
6	Bottom	Face 3, Increase height to 30 inches.	PV 1-9-18

Comments:

Signature: Paul Valgreda Date: 1-9-2018

Possession of this document is an acknowledgment that the contents herein are the exclusive property of Megadyne Medical Products, Inc. This document may not be reproduced in any form whatsoever without written permission from Megadyne. The user of this document must ensure that they are using the most current revision of this document.

Printed on: 23 Jan 2018, 10:41:20 am; Printed by: TSKINNER.

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 33 of 37

# APPENDIX III - BUBBLE LEAK TESTING

		Catalog - MI	or Megadyne ACE Blade 700 E725M1C
LOT - S170323			
Sample	Pass	Fail	Comments
		1 011	Comments
1	X		
2	X		
3	X		
4	X		
5	X		
6	X		
7	X		
8	X		
9	X		
10	X		
11	X		
12	X		
13	X		
14	X		
15	X		
16	X		
17	X		
18	Х		
19	Х		
20	X		
21	Х		
22	X		
23	Х		
24	X		
25	X		
26	X		
27	Х		
28	Х		
29	X		
30	Х		
31	X		
32	X		
33	X		
34	X		
35	X		

No failures were observed - PV

Paul Valpreda	1/10/2018
OPERATOR NAME	DATE
Paul Valpreda	1-10-2018
OPERATOR SIĞNATURE	DATE

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 34 of 37

# APPENDIX IV - DYE TESTING

		etration Ev			
		me ACE Bla			
	ME725M1C LOT S170323				
Sample #	PASS	FAIL	Comments		
1	Х				
2	X				
3	X				
4	Х				
5	X				
6	X				
7	Х				
8	X				
9	Х				
10	Х				
11	Х				
12	Х				
13	Х				
14	X				
15	Х				
16	Х				
17	Х				
18	X				
19	Х				
20	X				
21	Х				
22	X				
23	X				
24	Х				
25	Х				
26	Х				
27	X				
28	X				
29	X				
30	Х				
31	Х				
32	X				
33	X				
34	Х				
35	X				

No failures were observed - PV

Paul Valpreda	1/11/2018
Operator Name	Date
Paul Valpreda	1-11-2018
Operator Signature	Date

permission from Megadyne. The user Britise 800 in 15 in 1980 A 1880 A 1880 Britise 80 in 15 SKINNER vision of this document

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 35 of 37

# APPENDIX V - BURST TESTING

		Megadyne	dyne			TO NO				OPER-FRM-004	M-004	_
		Products, Inc.	s, Inc.	PEE	LPOUCH	-SEAL BI	PEEL POUCH - SEAL BURST TEST FORM	FORM		Revision: 002	002	
									ŀ	Page 3 of 5	of 5	
					7	App IultiVac	Appendix I MultiVac Test Samples	ples				
	Lot Number		Catalog	Catalog Number		Desc	Description		Date Tested	Tested	Lot Size	_
51:	5170323		METRSMIC	410	Megady	Megadyme Ace Blade		000	1-17-18	81-		_
						Burst	Burst Test Data					-
B/M/E	C#	TR	302	28 31	144	13.85	3.6	× 60	25.8	12 K	210	74 PE
	Value	30.4	26.3	26.6	37.5	27.5	27.5	25.5	27.4	25.6	37.5	24.3
B/M/E	C#	29	8	18	10	36	21	33	7	15	S	
	Value	28.9	28.6	27.5	27.5	23.1	26.6	24.0	26.9	26.2	26.5	23.7
B/M/E	C#	13	19	35	9	H	//	17	31	HE	0	48
	Value	26.9	24.9	28,9	27.4	24.5	26.5	27.2	28,9	26.8	24.1	26.
B/M/E	С#											
	Value											
B/M/E	C#											
	Value											
B/M/E	C#											
	Value											
Burst Tes	Burst Test Settings:	Not	c: C= Cavity	(MultiVac ca	avity location	), B/M/E-B	seginning/M	Note: C= Cavity (MultiVac eavity location), B/M/E=Beginning/Middle/End, Value=Measured Burst Value	/alue=Meas	ured Burst	Value	
FL	FLOW (#)		9		SENSIT (#)	T (#)		\	P	PREFILL (Y/N)	3	1
Burst Tes	Burst Test Equipment:	11										
Calibrat	Calibration Due Date		8-3-18		Equip. Id	Id. #	0	01397				
Lot disposi	Lot disposition: Quantity Tested	nity Tester	1	Accept	Rej	Reject (NCMR#	R#:	Ū	QA/MI	QA/Mfg initials &date:	tate:	0
-	95		120									

Megadyne<br/>Medical<br/>Products,<br/>Inc.TEST REPORT<br/>ENG-RPT-535Document Number<br/>ENG-RPT-535ZIP ACE Modified, 6-Pack Ship Test Report,<br/>T=0Revision: 001Page 36 of 37

#### APPENDIX VI - MINIMUM SEAL WIDTH TESTING

Package Seal Width Evaluation Data Collection Form

		1	Front	Back	Right	Left
Sample	Part/Lot	Cavity	1	3	2	4
1.	ME725M1C LOT - \$170323	2	STATE OF THE PARTY		0.32	
2	ME725M1C LOT - \$170323	1			0.32	
3	ME725M1C LOT - S170323	1			0.32	
4	ME725M1C LOT - \$170323	1			0.32	
5	ME725M1C LOT - \$170323	1 1			0.31	
6	ME725M1C LOT - \$170323	1			0.32	
7	ME725M1C LOT - \$170323	1.			0.32	
8	ME725M1C LOT - \$170323	1.			0.33	
9	ME725M1C LOT - \$170323	2			0.30	
10	ME725M1C LOT - \$170323	. 1		TOTAL PROPERTY.	0.31	
11	ME725M1C LOT - \$170323	2			0.32	
12	ME725M1C LOT - \$170323	2			0.31	
13	ME725M1C LOT - \$170323	2			0.32	
14	ME725M1C LOT - \$170323	1	The state of the state of		0.31	
15	ME725M1C LOT - \$170323	1	REAL PROPERTY.		0.30	
16	ME725M1C LOT - \$170323	2			0.31	
17	ME725M1C LOT - \$170323	2			0.32	
18.	ME725M1C LOT - S170323	2	STORY SEE		0.32	
19	ME725M1C LOT - \$170323	1	Tracket State		0.32	
20	ME725M1C LOT - S170323	2		The same of the same of	0.31	
21	ME725M1C LOT - \$170323	1		100000	0.31	
22	ME725M1C LOT - S170323	1		CALL PROPERTY.	0.32	
23	ME725M1C LOT - S170323	1			0.31	
24	ME725M1C LOT - S170323	1			0.27	
25	ME725M1C LOT - S170323	2			0.21	
26	ME725M1C LOT - \$170323	1		AND REAL PROPERTY.	0.32	
27	ME725M1C LOT - S170323	2	ALTER STATE		0.32	
28	ME725M1C LOT - \$170323	2			0.31	
29	ME725M1C LOT - \$170323	1		0.31		
30	ME725M1C LOT - \$170323	2	0.34	ALC: UNKNOWN		
31	ME725M1C LOT - S170323	1.			0.32	
32	ME725M1C LOT - \$170323	2	STATE OF THE PERSON NAMED IN	7	0.31	
33	ME725M1C LOT - \$170323	2	STREET, STREET		0.31	
34	ME725M1C LOT - \$170323	2		0.26	1000	
35	ME725M1C LOT - \$170323	1	CONTRACTOR OF		0.31	

Burst Side

#### CALIBRATION INFORMATION Calipers Startet MMP-1003

 Serial Number:
 723

 Megadyne Number:
 01039

 Calibration Date:
 5/18/2016

 Calibration Due:
 5/31/2018

Test-A-Pack Burst Test Equipment Program:
Megadyne 901397 Burst Test
SN 2098 Flow = 9
Cal date - 8-3-17 Sensit = 1
Cal due - 8-3-18 Profill = Y
Test Fixture - Large Needle
Part #F100-1320-2
SN 478

Paul Valpreda 1-22-2018

Possession of this document is an acknowledgment that the contents herein are the exclusive property of Megadyne Medical Products, Inc. This document may not be reproduced in any form whatsoever without written permission from Megadyne. The user of this document must ensure that they are using the most current revision of this document.

1/22/2018

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-535
Products,	ZIP ACE Modified, 6-Pack Ship Test Report,	Revision: 001
Inc.	T=0	Page 37 of 37

Fail

Ø

## APPENDIX VII - PRODUCT DAMAGE INSPECTION

The user must ensure that they are using the correct/current revision of this document. Document: XENG-PRT-441 Rev: A Effective: 20 Sep 2017

Megadyne	TEST PROTOCOL	<u>Document Number</u> XENG-PRT-441
Medical	ZIP ACE Modified Product 6-Pack Ship Test	Revision: A
Products, Inc.	Protocol	Page 17 of 17

#### APPENDIX VI - PRODUCT DAMAGE INSPECTION 15.

Pass

35

Catalog #

Inspect the product per the protocol and enter the number of units that pass or fail in the box below.

Damage	35	Ø	
Comments: No failures w	ere observed. No	coating failures we	re found.
Signature: Paul	laloreda	Date: 1-9-2018	

Possession of this document is an acknowledgment that the contents herein are the exclusive property of Megadyne Medical Products, Inc. This document may not be reproduced in any form whatsoever without written permission from Megadyne. The user of this document must ensure that they are using the most current revision of this document.

Printed on: 10 Jan 2018, 09:28:54 am; Printed by: TSKINNER.