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Document Number: ENG-RPT-581

Title: New Deantronics Yellow Label Stock EO Qualification

All dates and times are in Mountain Standard Time.

ENG-RPT-581 ND Yellow Label Stock

Change Request

Name/Signature	Title	Date	Meaning/Reason
Lucy Richards (LRICHARDS)			
Stacey Castaneda (SCASTANEDA)	Associate Complaint Analyst	19 Mar 2018, 08:48:59 AM	Approved

Collaboration

Name/Signature	Title	Date	Meaning/Reason
Paul Borgmeier (PBORGMEIER)		19 Mar 2018, 09:21:41 AM	Complete
Darlene Hull (DHULL)	Regulatory	16 May 2018, 04:24:40 PM	Complete
Joni Stegeman (JSTEGEMAN)	Ethicon Quality	19 Jun 2018, 06:11:01 PM	Complete
Tyler Skinner (TSKINNER)	Project Engineer	20 Jun 2018, 09:22:17 AM	Complete

Document Review

Name/Signature	Title	Date	Meaning/Reason
Stacey Castaneda (SCASTANEDA)	Associate Complaint Analyst		
Lucy Richards (LRICHARDS)		20 Jun 2018, 01:06:18 PM	Complete

RA-Approval

Name/Signature	Title	Date	Meaning/Reason
Darlene Hull (DHULL)	Regulatory	20 Jun 2018, 03:08:00 PM	Approved

QA-Approval

Name/Signature	Title	Date	Meaning/Reason
Joni Stegeman (JSTEGEMAN)	Ethicon Quality	21 Jun 2018, 04:23:16 PM	Approved

ENG-Approval

Name/Signature	Title	Date	Meaning/Reason
Paul Borgmeier (PBORGMEIER)		21 Jun 2018, 03:28:49 PM	Approved

Training Review

Name/Signature	Title	Date	Meaning/Reason
Stacey Castaneda (SCASTANEDA)	Associate Complaint Analyst		
Lucy Richards (LRICHARDS)		22 Jun 2018, 09:10:24 AM	Approved

Printed on: 21 Jan 2020, 11:14:56 pm; Printed by: .

Final Release

Name/Signature	Title	Date	Meaning/Reason
Stacey Castaneda (SCASTANEDA)	Associate Complaint Analyst		
Lucy Richards (LRICHARDS)		22 Jun 2018, 09:11:49 AM	Approved

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Authored By: Tyler Skinner

1. ABSTRACT

Test Protocol ENG-PRT-465 was successfully executed. New Deantronics "Plain Label, Yellow 254x76MM" Catalog Item L100700 was subjected to 2x EO Sterilization, Pre-Conditioning, Ship Testing, and Label Clarity and Legibility as outlined in ENG-PRT-465.

The positive results contained herein provide confidence that New Deantronics "Plain Label, Yellow 254x76MM" Catalog Item L100700 can withstand the anticipated distribution environment post EO sterilization. It is anticipated that this label stock will be used with product ME725M1C (Label # 3151074-01) and ME725M1E (Label # 3151076-01).

2. REFERENCES

ME725M1C	ACE Blade 700, 2.5", Modified, Zip Pen, "C" Connector, 10 ft. Tubing
ME725M1E	ACE Blade 700, 2.5" Modified, Zip Pen, EC Connector, 10 ft. Tubing
3151074-01	Shipping Label, Megadyne 700, Modified, 10 Foot, Standard Connector
3151076-01	Shipping Label, Megadyne 700, Modified, 10 Foot, EC Connector
ENG-PRT-465	New Deantronics Yellow Label Stock EO Qualification

3. OBJECTIVE

This Test Report provides objective evidence that New Deantronics "Plain Label, Yellow 254x76MM" Catalog Item L100700 can withstand the anticipated distribution environment post EO sterilization

4. APPENDICES

Appendix I - 2x EO Sterilization

Appendix II – Pre-Conditioning

Appendix III – Ship Testing

Appendix IV – Label Clarity and Legibility (Label Inspection)

Appendix V – Label Certificate of Compliance

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5. RESULTS

As outlined in ENG-PRT-465, three labels (PN L100700 Lot # 17101101 see Appendix V) were placed on each box of product (PN ME725M1C Lot # S170324) for a total of 18 labels placed on six boxes. Theses boxes of product with three additional labels will be referred to as Test Samples for the remainder of this report.

5.1. 2x EO Sterilization

Six Test Samples were 2x EO Sterilized as outlined ENG-PRT-465. See Appendix I (noted as ENG TEST in EO documentation).

5.2. Preconditioning

Six Test Samples were preconditioning according to ENG-PRT-465. A summary of the preconditioning can be seen below (see Appendix II for raw cycle data):

Maximum Temperature (°C)	55.1 °C
Minimum Temperature (°C)	-40.2 °C
Maximum Humidity (%RH)	94.7%RH
Minimum Humidity (%RH)	14.4%RH
Chamber condition held at -40 °C and no	12:15 to 16:15 on 3/5/18
humidity control for a duration of 4 hours.	
Chamber condition held at 55 °C and 95%RH	17:55 to 21:55 on 3/5/18
for a duration of 4 hours.	
Chamber condition held at 55 °C and 15%RH	23:45 on 3/5/18 to 3:45 on 3/6/18
for a duration of 4 hours.	
Chamber condition held at 23 °C and 50%RH	4:15 on 3/6/18 to 4:15 on 3/9/18
for a duration of 72 hours.	

5.3. Ship Testing

The ship test was performed as outlined in ENG-PRT-465. See Appendix III for a complete summary of testing.

Tests were performed under typical warehouse conditions, which are:

Temperature: 23°C ±5°C

Relative Humidity: 50% ±35%

5.3.1. Handling - Manual (Drop Test)

The Manual Handling (Drop Test) was performed using a drop height of 15 in as outlined in ENG-PRT-465.

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5.3.2. Vehicle Stacking (Compression Test)

The Vehicle Stacking (Compression Test) was performed using a computed load (L) of 210 lb as outlined in ENG-PRT-465, and below.

 $L = M \times J \times ((H-h)/h) \times F$

Where:

L is the computed load (lbf)

M = 3.5 lb

J = 1 lbf/lb

H=108 in

h = 5.5

F = 3.0 (see section 11.2 of ASTM D4169)

This formula results in a testing weight (L) of 195.68. Using 210 lbs. is okay as this is more weight than required by ASTM 4169. See Appendix III.

5.3.3. Vehicle Vibration and Loose Load Vibration Tests

The Vehicle Vibration test was performed for 10 min as outlined in ENG-PRT-465. Following the Vehicle Vibration test, the Loose Load Vibration Test was performed for 40 min as outlined in ENG-PRT-465.

5.3.4. Concentrated Impact Test

The Concentrated Impact Test was performed as outlined in ENG-PRT-465.

5.3.5. Manual - Handling (2nd Drop Test)

The Manual Handling (2nd 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-465.

5.3.6. Each box remained intact and did not break open during the test.

5.4. Label Clarity and Legibility (Label Inspection)

All eighteen (18) labels found on the six Test Samples passed the label clarity and legibility inspection.

6. DISCUSSION

6.1. 2x EO Sterilization

Six Test Samples were 2x EO sterilized as required by ENG-PRT-465.

6.2. Preconditioning

Six Test Samples were preconditioned as required by ENG-PRT-465.

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6.3. Ship Testing

Six Test Samples were ship tested as required by ENG-PRT-465.

6.4. Label Clarity and Legibility (Label Inspection)

All eighteen labels (Six Test Samples) met the acceptance criteria as outlined in ENG-PRT-465.

7. CONCLUSIONS

New Deantronics "Plain Label, Yellow 254x76MM" Catalog Item L100700 meets all acceptance criteria as outlined by ENG-PRT-465.

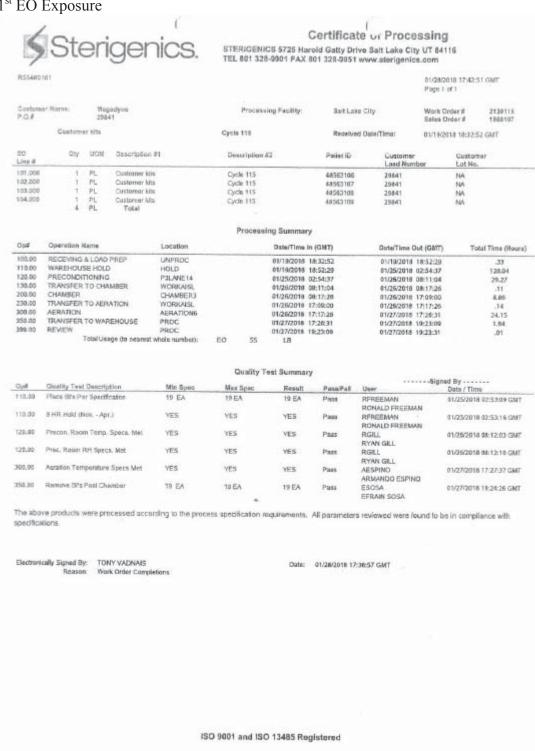
8. RECOMMENDATIONS

New Deantronics "Plain Label, Yellow 254x76MM" Catalog Item L100700 can withstand the anticipated shipping environment post EO Sterilization and should be considered acceptable for production use.

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APPENDIX I – 2X EO STERILIZATION 9.

1st EO Exposure



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Megadyne Medical Products, Inc. Work Order 2130115 2018-01-26



The Global Leader in Contract Sterilization Services Megadyne Medical Products, Inc.

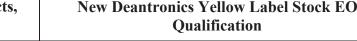
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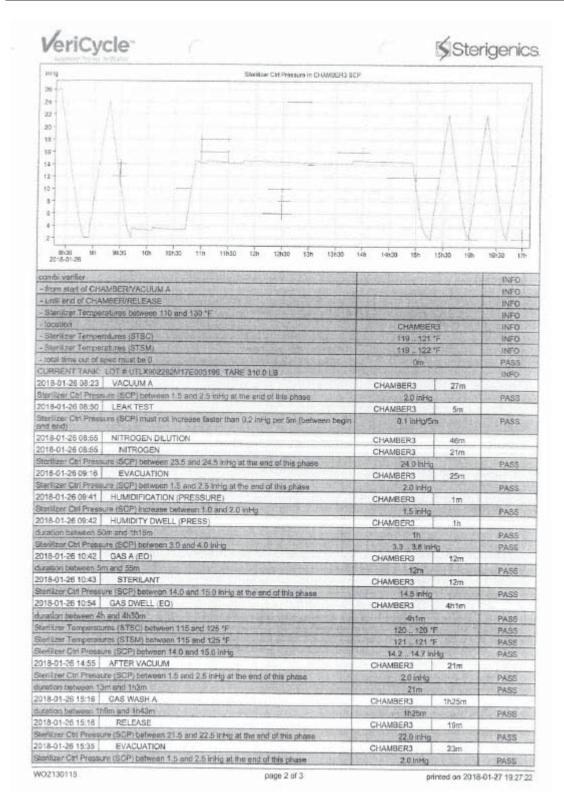
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VeriCycle* WORK ORDER: CYCLE 115 1868107 SALES ORDER: PURCHASE ORDER: 29841 FACILITY: Salt Lake City - Sterigenics CUSTOMER: Megadyne Medical Products, Inc. 5725 Harold Gatty Drive 11506 South State Street Salt Lake City, UT 84116 Salt Lake City, UT 84020 United States ITEM: 129 115 CH VERIFICATION RECIPE ID: Pallet ID Custo 1 PL Customer kits Cycle 115 48563105 29841 NA 1 PL Customer kits Cycle 115 48563107 29841 NA Cycle 115 48563108 29841 NA 1 PL. Customer kits Cycle 115 48563109 29841 NA 4 PL 2018-01-19 18:32 RECEVING & LOAD PREP UNPROC 20m parts list lotal quantity between 3 and 7 2018-01-19 18:52 WAREHOUSE HOLD PASS HOLD 5d8h2m duration at least 5h PASS 2018-01-25 02:54 PRECONDITIONING P3LANE14 1d5h18m duration between 1d and 3d 1d5h15m PASS combi verifier from start of PRECONDITIONING INFO until end of PRECONDITIONING INFO - Precon Temperatures between 100 and 120 °F - Precon RHs between 45 and 75 %RH INFO P3LANE14 INFO - Precon Temperatures (PTSC) 109 . 110 °F INFO Precon Temperatures (PTSM) 109 .. 110 °F INFO Precon RHs (PRHSC) 62 . 67 %RH INFO - Precon RHs (PRHSM) 62 ... 67 %RH INFO - minimum 1d in spec 1d5h16m PASS - maximum 30m out of spec (consecutive) PASS Precon Temperatures (PTSC) at most 120 °F 109 ... 110 °F PASS Preson Temperatures (PTSM) at most 120 °F 109 110 °F PASS Pregan RHs (PRHSC) at most 75 %RH 82_87 %RH PASS Precon RHe (PRHSM) at most 75 %RH 62 ... 67 %RH PASS 2018-01-26 08:11 TRANSFER TO CHAMBER WORKAISL 6m duration at most 1h PASS 2018-01-26 08:17 CHAMBER CHAMBER3 cycle check value must be 6115 6115 PASS W02130115 page 1 of 3 printed on 2018-01-27 19:27:22

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VeriCycle*	1 1	Ster	igeni
2018-01-26 15:59 RELEASE	CHAMBER3	19m	
Sterilizer Cirl Pressure (SCP) between 21.5 and 22.5 in Fig. at the and of this phase	22.0 inHo		PASS
2018-01-26 16:18 EVACUATION	CHAMBER3	23m	17790
Steritzer Ctrl Pressure (SCP) between 1.5 and 2.5 inHg at the end of this phase	2.0 inHa	E SERVICIONE SE	PASS
2018-01-26 16:41 RELEASE	CHAMBER3	23m	11700
Sterilizer Clrf Pressure (SCP) botween 24.7 and 26.8 inHg at the end of this phase	24.87nHq	MACINETAL	PASS
2018-01-26 17:04 CYCLE COMPLETE	CHAMBER3	4m	
Sterilant Usage Total (SUT) at least 0 ib 5m before the start of this phase	65 b	THE PERSON	PASS
2018-01-25 17:09 TRANSFER TO AERATION	WORKAISL	8m	
2018-01-26 17:17 AERATION	AERATIONS	1d9m	
duration between 1d and 3d	1d9m	SULL HEES	PASS
combi verifier	TEXASTER SECTION	ESTA CE	INFO
- from start of AERATION	Service Principles	Part Line	INFO
- until end of AERATION			INFO
- Aerstion Temperatures between 100 and 120 °F		均压护政	INFO
- Aeration Circulation between 90 and 110		SHEETE, IN	INFO
- location	AERATION	THE REAL PROPERTY.	INFO
- Asration Temperatures (ATSC)	98 112 °F		INFO
- Asiation Temperatures (ATSM)	99 112 °F	12 E P. 14	INFO
- Aeration Circulation (AC1)	99 101	22011	INFO
-minimum 1d in spec	1d5m	MARKET !	PASS
-maximum 30m out of apec (consecutive)	2m	E 10.2105-0.1	PASS
Agration Temperatures (ATSC) at most 120 °F	98 112.*F	SUPERIOR STATE	PASS
Aeration Temperatures (ATSM) at most 120 °F	89 _ 112 °F	STREET, ST	PASS
2013-01-27 17:26 TRANSFER TO WAREHOUSE	PROC	1h67m	
2018-01-27 19:23 REVIEW	PROC	22s	
FiR Hold (Nov Apr.) (YES)	YES	EIGENST!	PASS
Prec. Room RH Spora. Met (YES)	YES		PASS
Precon. Room Temp. Specis. Met (YES)	YES	NOTE: N	PASS
Miration Temperature Specs Met (YES)	YES		PASS
Remove BI's Post Chamber (19 EA)	19		PASS
Race Bl's Per Specification (19 EA)	19	A William	PASS
RESULT OF VERIFICATION	P	ASS	

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

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Lab Submission form attached:			YES	NO							
		LAL	Samples:	YES	NO	1	Number	er of LAL	Sample	s to be	N/A

Note: Product identification may be listed below or an attached Packing List.

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Product ID	# Cartons	Product ID		# Carto
SEE ATTACHED				
	HANDLING / SPECI	AL INSTRUCTIONS		
Please use this E-Mail address	eosterilization@meg	adyne.com for resu	ults.	
Customer Authorization	T			
Signature Required for	Tru All	11		
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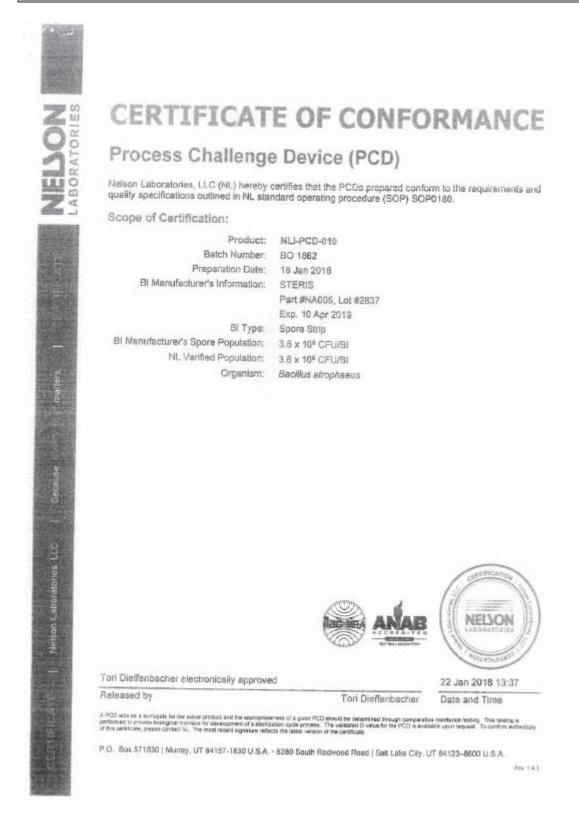
			STERILIZATIO		
	PART#	LOT#	STERILE QTY.	# OF BOXES	DATE OUT
	00/4AM	180366	8316	63	1/18/18
	0012AM	180337	8040	31	
	6012M	180263	21012	80	
	00/3MD	180273	816	4	
	00/2AMD	180146	984	5	
	DD14AMD	180274	192	1	
	001419	180277	9360	71	
	DOIGAM	180270	8016	61	
	ODIZAM	180222	9264	36	
	DO12M	180312	18348	70	
	DD14M	180364	9108	69	
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REVISION HISTORY

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

Printed on: 15 Dec 2017, 08:39:57 am; Printed by: :EMCKENNA.

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CRM44151 Roud: 27 Nov 2017 Ambient Use By: 19 Apr 2019

STERIS

| CKI

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

Opened:

CATALOG NUMBER: NA005

PRODUCT NAME: Spordex Strip

PRODUCT LOT NUMBER: C17023

1654

SUBASSEMBLY LOT NUMBER: 2837

EXPIRATION DATE: April 10, 2019

Bacillus atrophaeus NRRL B4418:

Mean Population Recovery* (CFU): 3.6 x 104

Survival Time (Mia.): 12.4

Dos Valuo** (Min.***): 2.7

Kill Time (Min.): 28.5

Dps Value ** (Min. ***): 1.6

Survival Time (Min.): 7.3

Kill Time (Min.): 16.8

- 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:

Date: 1/17/17

Reviewed By: Yangan A

Date: 1113

LIMITATION OF LIABILITY AND INDEMNITY

Nothing in this Certificate of Performance shall, or is intended to, after, expand, or diminish the terms and conditions of sale governing your purchase of the Biological Indicator Product from STERIS, to no every, whether as a result of breach of warranty, or tort (including negligence 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 to any consequencial or incidental damages including, without institution, loss of use or damage to your products or equipment, cost of substitute products, or down time costs, allegedly caused by the Biological Indicator Products. The or injuries or deam caused by the Biological Indicator Product shall be winded to that portion of such damages as might be attributable to the negligence or strict fability or other notices conduct of STERIS.

PC600035 Revision Level: AN ECN# 16462 Effectivity Date: 09/22/2017

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STERIS Corporation - 3960 Heisley Road - Mentor, OH 44060-1834 USA - 440-354-2600

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

Biological Indicator (BI) Sterility Test Final Report

Study Number: 1017206-S01

Test Article: Sterigenics Run #2130115

Purchase Order: 29842 Study Received Date: 28 Jan 2018

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.

Bl Information:

Туре	Manufacturer	Lot#	Expiration Date	Species Name	Minimum Incubation Time	Incubation Temperature
Spore Strip	STERIS	2837	10 Apr 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	150 mg 1 mg 1
Media Negative Control	1	0	1
Positive Control	1	1	0



05 Feb 2018 08:50 AM

Derek L. Miller electronically approved

Study Director Derek L. M

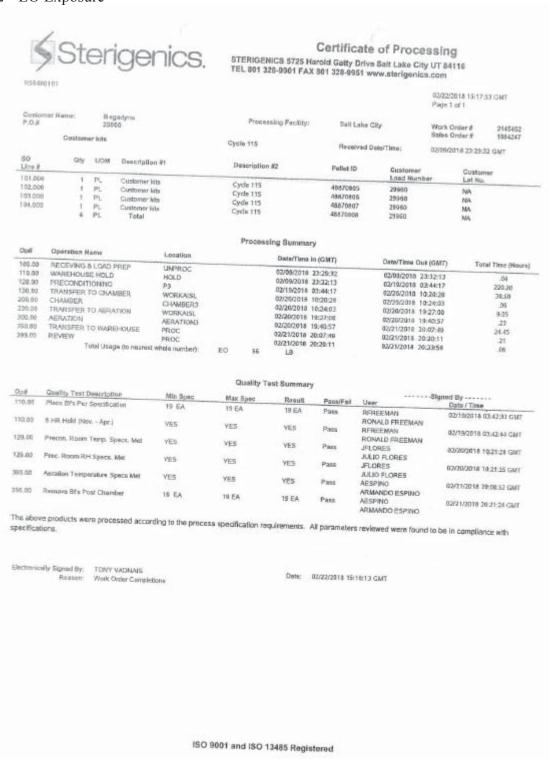
Study Completion Date and Time

P.O. Box 5: M30 | Murray: UT 84157-75/0 U.S.A. - 5250 South Herdwood Hood | Sat Lake Cay, UT 84123-8600 U.S.A. Nuw nelsonlabs.com - Telephone 801 290 7500 | Fax 801 290 7968 | Itales@nelsonlabs.com Page 1 of 1

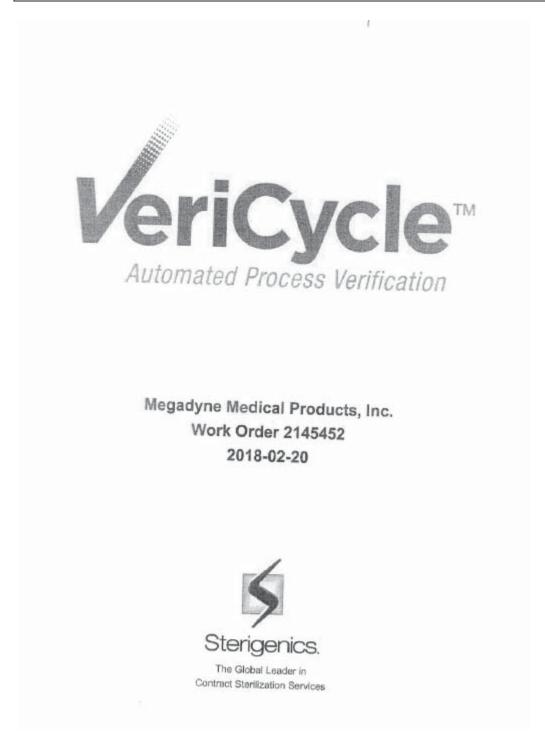
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2nd EO Exposure



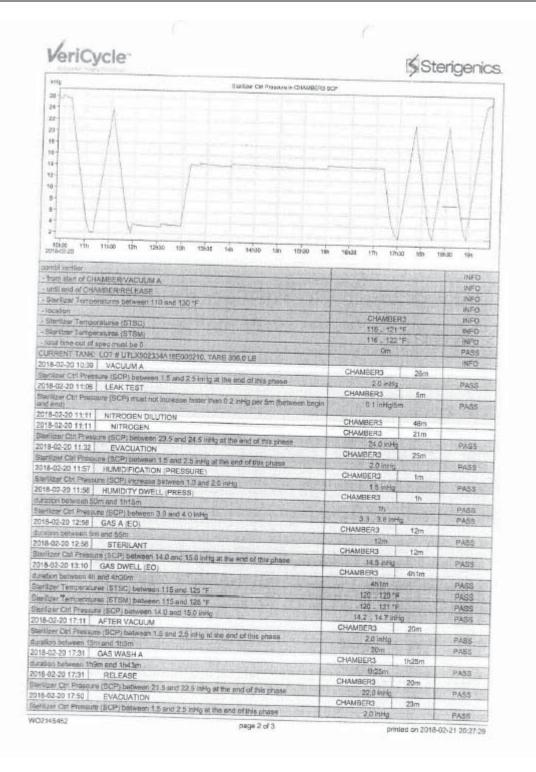
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WORK OF		2145452	CYCLE:	115					
SALES OF	ROER:	1884247	PURCHASE ORDER:	29860					
FACILITY:		Salt Lake City - Starigenics CUSTOMER:			me Mad	ical Products, il	227		
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		Self Lake City, UT 841	16			JT 84020			
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			VERIFICATION RECIPE ID:	16585					
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2018-02-09	23:29 R	ECEVING & LOAD PRE	P						
parts list total	c quantity	between 3 and 7		Chillian Co	NAME OF TAXABLE PARTY.	NPROC	311	1	-
2018-02-09 : duration at le	23:32 W	AREHOUSE HOLD			-	HOLD	9d4n1	270	PASS
		RECONDITIONING		Editoria	37.54	9d4h12m			PASS
duration betw	roen 1d s	ind 3d		CARCINA	UNG UK	P3	1d6h3	8m	
combi varifier				J. Kling	T. A. R.	1d5h36ns	GD SUS	Total C	PASS IMFO
- until and of	PRECO	NDITIONING NDITIONING		STORES	1000				INFO
Precon Ten	persone	e between 100 and 120	·	C. H				384	INFO
Precon RHs	batives	1.45 and 75 %RH				PATRICA ST			INFO
Precon Ten	unest a					P3			INFO
Frecon Tem						109 . 110 1			INFO
- Precon RHs (PRHSC)						110 110 1		204	INFO
Precon RHs				and the same of		63 67 %RJ			INFO
meximum 30	in spec	EDGC (COMMERCIAL)			III SE	1d6h36m	100		PASS
recon Tempe	muree (PTSC) at most 120 °F		19200	1000	- Om	1100	98 00	PASS
recon Tempe	raturus (PTSM) at most 120 °F				CONTRACTOR CONTRACTOR			PASS
BOON FINE (P	RHSC) a	I most 75 %RM		Charles .		63 67 %RH		100	PASS PASS
18-02-20 10:	20 TRA	NSFER TO CHAMBER				63 : 67 %RH			PASS
ration at mos	it th	Service Charles	0.02230 570 0 2575	THE REAL PROPERTY.	WOF		4m	-	NEW TO
					CHA	VBER3	9h3m		PASS
Se chere ea	oe musc i	16 01.10	ELTH EYER STRONG IN	and the		6115			PASS
minimum 1d mesernum 30 recon Tempe recon RHs (P recon RHs (P 118-02-20 10	in spec or out of column () RHSC) a RHSC) a RH	spec Jonnsecutive) PTSC) at most 120 °F PTSM) at most 120 °F it most 75 °F,RH ii most 75 °F,RH NSFER TO CHAMBER MBER				9m 109 110 F 110 110 F 63 67 MRH 82 67 MRH 84 87 MRH 84 88 88 MRH 84 88 88 MRH 85 88 MRH 86 MRH			P P P

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2015-02-20 18:33 EVACUATION Sterilizer Ctri Pressure (SCP) between 1.5 and 2.5 inHg at the end of this phase 2018-02-20 18:96 RELEASE Sterilizer Ctri Pressure (SCP) between 24.7 and 25.8 inHg at the end of this phase 2018-02-20 19:19 CYCLE COMPLETE Sterilant Usege Total (SUT) at least 0.10 5m before the start of this phase 2018-02-20 19:27 TRANSFER TO AERATION 2018-02-20 19:40 AERATION 2018-02-20 19:40 AERATION 2018-03-20 19:40 AERATION	CHAMBERS 22.0 Inch CHAMBERS 2.0 Inch CHAMBERS 24.8 Inch CHAMBERS 66 Ib WORKAISL AERATION J 1027m	19m 23m 23m	PASS PASS
Stantizer Ctrl Pressure (SCP) between 21.5 and 22.5 inHight the end of this phase 2018-02-20 18:33 EVACUATION Sterilizer Ctrl Pressure (SCP) between 1.5 and 2.6 inHight the end of this phase 2018-02-20 18:96 RELEASE Stantizer Ctrl Pressure (SCP) between 24.7 and 25.8 inHight the end of this phase 2018-02-20 19:19 CYCLE COMPLETE Stantiant Usego Total (SUT) at least 0 to 5m before the start of this phase 2018-02-20 19:07 RANSFER TO AERATION 3018-02-20 19:07 AERATION 3018-02-20 19:07 AERATION until and of AERATION until and of AERATION	22.0 he4 CHAMBER3 2.0 inHg CHAMBER3 24.8 he4 CHAMBER3 86 b WORKAISL AERATION3	23m 23m	PASS
2015-02-20 16:33 EVACUATION Sterilizer Crit Pressure (SCP) between 1.5 and 2.5 inHg at the end of this phase	CHAMBERS 2.0 in Hy CHAMBERS 24.6 MHz CHAMBERS 66 b WORKAISL AERATIONS	23m 23m	PASS
2018-02-20 18:96 RELEASE Starting Clif Prescure (SCP) between 24.7 and 25.8 inhig at the end of this phase 2018-02-20 19:19 CYCLE COMPLETE Starting Usage Total (SUT) at Seast 0 its 5m before the start of this phase 2018-02-20 19:27 TRANSFER TO AERATION 2018-02-20 19:40 AERATION 2018-02-20 19:40 AERATION 2018-02-20 19:40 AERATION 2018-03-20 19:40 AERATION	2.0 mHz CHAMBER3 24.6 MHz CHAMBER3 86 b WORKAISL AERATION3	23m	
2018-02-20 18:96 RELEASE Sharker Chi Presume (SCP) between 24.7 and 25.8 inlig at the end of this phase 2018-02-20 19:19 CYCLE GOMPLETE Sharker Lisege Total (SUT) at least 0 its 5m before the start of his phase 2018-02-20 19:40 AFRATION Asselson between 15 and 3d combit varies from start of AERATION until and of AERATION	CHAMBER3 24.8 HHs CHAMBER3 68.6 WORKAISL AERATION3	23m	
Startinger Ctrl Pressure (SCP) between 24.7 and 25.8 inhight the end of this phase 2018-02-20 19:19 CYCLE COMPLETE Starting 13:sep Total (SUT) at least 0 to 5m before the start of this phase 20:80-20 19:27 TRANSFER TO AERATION 20:80-20-20 19:40 AERATION 20:80-20-20-20 19:40 AERATION 20:80-20-20 19:40 AERATION 20:80-20 19:40 AERATION 20:80-	24.8 kes CHAMBER3 68 b WORKAISL AERATION3	TOWN TO	
2018-02-20 19:19 CYCLE COMPLETE Startinal 13sept Total (SUT) at least 0 to 5m before the start of this phase 2018-02-20 19:27 TRANSFER TO AERATION 2018-02-20 19:40 AERATION 33-9160 between 1d and 3d 2018-02-20 19:40 AERATION 2018-03-20 AERATION 2018-03-20	CHAMBER3 66 Ib WORKAISL AERATION3		
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2018-02-20 19:27 TRANSFER TO AERATION 018-02-20 19:40 AERATION Strellon between 1d and 3d committee of AERATION until and of AERATION until and of AERATION	WORKAISL AERATION I		Owner, where the
2018-02-20 19:40 AERATION 33-a flori between 1d and 3d combit verifier from stert of AERATION until and of AERATION	AERATION3		PASS
Arefor between 1d and 3d combi verifier from start of AERATION until and of AERATION	The second second second second	14rs	
irom start of AERATION until and of AERATION	1d27m	1d27m	
from start of AERATION until and of AERATION	1000701		PASS
until and of AERATION		TO THE REAL PROPERTY.	INFO
		300 H 1002	INFO
	SE THE SEATHER SHIP IS	(SHEAR)	INFO
- Assetion Circulation between 90 and 110		1000	MED
location - April 15 Carcadoon between 90 and 110	TO SERVICE OF THE SER	REVESTIGATION.	INFO
Aeroton Temperatures (ATSC)	AERATON	3	INFO
Availon Temperature (ATSM)	95 _ 110 7	-	INFO
Assistan Circulation (AC1)	95 109 7	THE PERSON	INFO
minimum 1d in spec	98 100	MATERIAL STATES	INFO
maximum 30m out of spec (consecutive)	1d14m	and the same	PASS
	13m	HE WATER	PASS
erefor Temperatures (ATSC) at most 120 °F	05 110 °F	20010-14-0	PASS
eration Temperatures (ATSM) at most 120 °F	95 199 %	E BUIL	PASS
018-02-21 20:07 TRANSFER TO WAREHOUSE	PROC	12m	mark and
018-02-21 20:20 REVIEW	PROC	4m	
HR Hold (Nov + Apr.) (YES)	YES	SEE STATE OF	PASS
roc. Room RM Specs. Mgt (YES)	YES	VIB SUPE	PASS
recor. Room Temp. Specs. Mar (YES)	YES	CONTRACT.	PASS
eration Temperature Specs Met (YES)	YES	10.25376	PASS
emove Bits Post Chamber (19 EA)	19	Chicken Co.	PASS
ace BI's Per Specification (19 FA)	19	対対を対けが行う	PASS
ESULT OF VERIFICATION	P	ASS	
i costomers responsibility to ensure acceptance of any result other than PASS noted on the	а перия риск и геневава с	Fine kasa.	

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Lab Submi attached:	ssion i	form		YES	NO						
	1	LAL Samp	ples:	YES	NO 1		umber		. Sample:	s to be	N/A

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Product ID	# Cartons	Product ID		#
SEE ATTACHED		No.		Carto
SEE ATTACHED				Carte
Please use this F-Moll address	HANDLING / SPECIA	AL INSTRUCTIONS	Continued in	
Please use this E-Mail addres	s gosterilization@meg	adyne.com for rest	ults.	
Customer Authorization				
Signature Required for		100		
Processing:	Triffe			-2 0 M
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	EO	STERILIZATI	ON	
PART#	LOT#	STERILE QTY.	# OF BOXES	DATE OUT
DD1214	180672	18012	69	2/9/18
DO12AM	180673	9240	35	1
MYZIOO	180729	9540	37	
DOIYAM	180810	8388	64	
0014M	180845	12,936	98	
0012M	180853	18.960	72	/
0014MD	180791	480	7-	
0036	180765	1500	30	
ENG TE	ST ~		6	
DUANAGE-			49	
			/	
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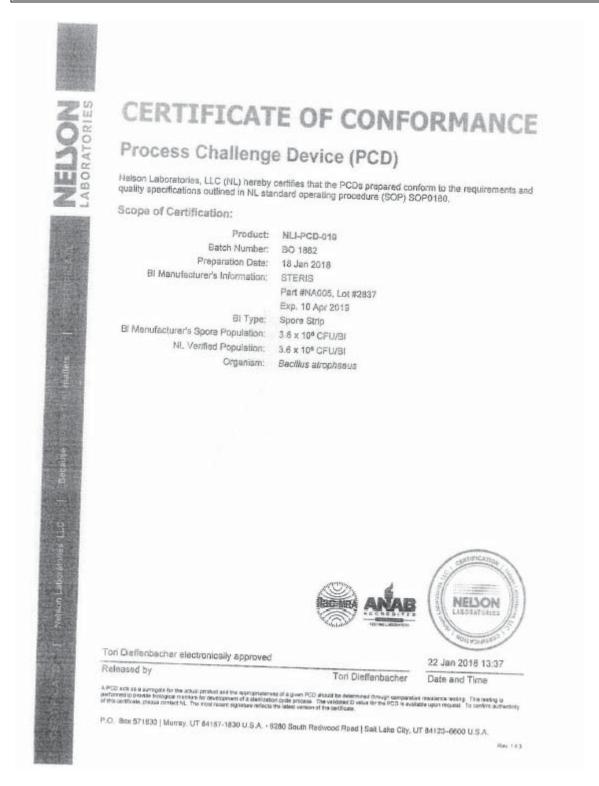
PREPARERS SIGNATURE Fine Miller	DATE: 2-9-18
P/OH: 29/660 mf aboli8 29960, 29961	
COMMENTS: # Fallets = 4	
# BOVES = U/2	

REVISION HISTORY

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

Printed on: 22 Jan 2018, 07:56:46 am; Printed by: :EMCKENNA.

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> **制整理程制** CRM44151 Rove: 27 Nov 2017 Ambient Use By: 10 Apr 2019

80 1802

STERIS

11154

STERIS Corporation Biological Operations Bacillus atrophaeus BIOLOGICAL INDICATOR CERTIFICATE OF PERFORMANCE

CATALOG NUMBER: NASOS

PRODUCT NAME: Spordex Strip

PRODUCT LOT NUMBER: C17023

SUBASSEMBLY LOT NUMBER: 2837

EXPIRATION DATE: April 10, 2019

Bacillus atropharus NRPL B4418:

Mean Population Recovery* (CFU): 3.6 x 10s

Survival Time (Min.): 12,4

Dso Value** (Min. ***): 2,7

Kill Time (Min.): 28.5

DpH Value** (Mia. ***): 1.6

Survival Time (Min.): 7.3

Kill Time (Min.): 16.8

- Colony forming units determined after a preliminary heat treatment.
- ** 600±30mg/LEO 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 its 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 carrent versions of, ISO 11138-1, ISO 11138-2, and USP.

Quality Systems Representative:

Victorian y Date: Reviewed By: Therens July Fingles

LIMITATION OF LIABILITY AND INDEMNITY

Nothing in this Certificate of Performance shall, or is intended in, after, expand, or diminish the serms 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 ton (including negligence and strict of the biological indicator Product from a rackle, in no event, whether as a result or breach to warranty, or non (including negogiance and survival liability) shall STERIS or its suppliers be liable as a result of any statement or information contained in this Certificate of Performance. In addition, seek that it is not be liable for any consequential or incidental damages hashing without limitation, loss of use or damage to your products or equipment, cost of auto-time products, or down time costs, allegedry caused by the Biological Indicators Products. The responsibility of STERIS for damages due to imparior or detail caused by the Biological Indicator Product shall be amused to that purson of such damages as might be attributable to the negligence or strict liability or other tectuous conduct of STERIS.

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

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

Biological Indicator (BI) Sterility Test Final Report

Study Number: 1024509-S01

Test Article: Sterigenics Run #2145452

Purchase Order: 29661 Study Received Date: 22 Feb 2018

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	2837	10 Apr 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	
Positive Control	1	1	0



Derek L. Miller electronically approved

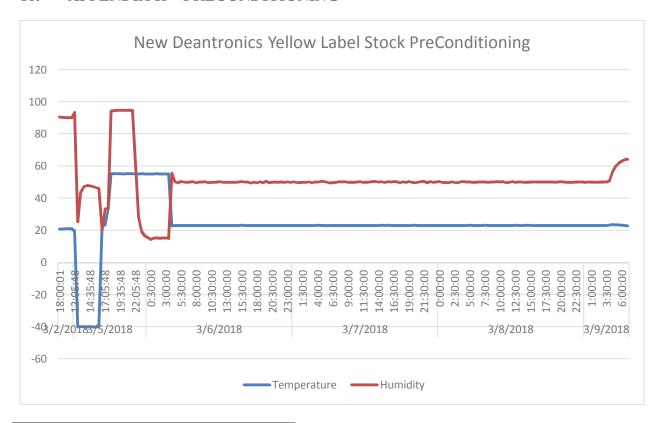
Study Director Derek L. Miller 801-290-7500 | nelsonlabs.com | sales@nelsonlabs.com

01 Mar 2018 10:17 AM Study Completion Date and Time

These results reliefs only no the test action leaved in this region. Reports may not be reproduced accept in their antivity. Subject to ML terms and conditions are were nest or label.

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10. APPENDIX II – PRECONDITIONING



Date	Time	Air	Humidity
		Temp	
3/2/2018	18:00:01	20.7	90.4
	18:30:01	20.8	90.3
	19:00:01	20.9	90.1
	19:30:01	20.9	90
	20:00:01	21	90
3/5/2018	12:05:48	19.6	93.4
	12:35:48	-40.2	25.3
	13:05:48	-40	43.9
	13:35:48	-40	47.3
	14:05:48	-40.1	47.8
	14:35:48	-40	47.6
	15:05:48	-40.1	47.2
	15:35:48	-40.1	46.6
	16:05:48	-40	46
	16:35:48	23.2	20.3

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17:05:48 23.1 33.2 17:35:48 33.5 33.2 18:05:48 55.2 94.2 18:35:48 55.1 94.6 19:35:48 55.1 94.6 19:35:48 55.1 94.6 20:35:48 55.1 94.6 21:05:48 55.1 94.7 21:35:48 55.1 94.7 22:05:48 55 62.9 22:35:48 55 28.3 23:05:48 55.1 19.4 23:35:48 55 16.6 3/6/2018 0:00:00 54.9 15.5 0:30:00 54.9 15.1 1:00:00 54.9 15.1 1:30:00 55 14.9 2:30:00 55 15.1 3:00:00 55 15.1 3:30:00 22.8 55.6 4:00:00 22.8 55.6 4:30:00 23 50.4 6:00:00 23 50.1 <th></th> <th></th> <th></th> <th></th>				
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12:00:00 23 50.4 12:30:00 23.1 49.8 13:00:00 23 50.1 13:30:00 23 50.1 14:00:00 23 49.8 14:30:00 23.1 49.8 15:00:00 23 50 15:30:00 22.9 50 16:00:00 23 50 17:00:00 23 50 17:30:00 23 50.1 17:30:00 23 50 18:00:00 23 50.1 19:00:00 23 50.1 19:30:00 23 50.1 19:30:00 23 50 20:00:00 23 50.2	11:00:00	23	49.7
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13:30:00 23 50.1 14:00:00 23 49.8 14:30:00 23.1 49.8 15:00:00 23 50 15:30:00 22.9 50 16:00:00 23 50 16:30:00 23 50 17:00:00 23 50.1 17:30:00 23 50 18:00:00 23 50 18:30:00 23 50.1 19:00:00 23 49.9 19:30:00 23 50 20:00:00 23 50.2	12:30:00	23.1	49.8
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17:00:00 23 50.1 17:30:00 23 50 18:00:00 23 50 18:30:00 23 50.1 19:00:00 23 49.9 19:30:00 23 50 20:00:00 23 50.2	16:00:00	23	50
17:30:00 23 50 18:00:00 23 50 18:30:00 23 50.1 19:00:00 23 49.9 19:30:00 23 50 20:00:00 23 50.2	16:30:00	23	50
18:00:00 23 50 18:30:00 23 50.1 19:00:00 23 49.9 19:30:00 23 50 20:00:00 23 50.2	17:00:00	23	50.1
18:30:00 23 50.1 19:00:00 23 49.9 19:30:00 23 50 20:00:00 23 50.2	17:30:00	23	50
19:00:00 23 49.9 19:30:00 23 50 20:00:00 23 50.2	18:00:00	23	50
19:30:00 23 50 20:00:00 23 50.2	18:30:00	23	50.1
20:00:00 23 50.2	19:00:00	23	49.9
	19:30:00	23	50
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<u> </u>	20:30:00	23	50

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	21:00:00	23	49.9
	21:30:00	23	49.8
	22:00:00	23	49.9
	22:30:00	23	50
	23:00:00	23	50
	23:30:00	23	50.1
3/9/2018	0:00:00	23	49.8
	0:30:00	23	50
	1:00:00	22.9	50
	1:30:00	23	49.9
	2:00:00	23	49.8
	2:30:00	23	50.1
	3:00:00	23	50
	3:30:00	23	50.1
	4:00:00	23.3	50.9
	4:30:00	23.5	56.6
	5:00:00	23.4	59.8
	5:30:00	23.3	61.7
	6:00:00	23.1	62.9
	6:30:00	22.9	63.9
	7:00:00	22.8	64.1

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Products,
Inc.TEST REPORT
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11. APPENDIX III – SHIP TESTING

The user must ensure that they are using the correct/current revision of this document. Document: ENG-PRT-465 Rev: 001 Effective: 27 Feb 2018

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APPENDIX I

Shipping Test Log Sheet

Preconditioning:

Start Date:

3-2-2018

Chamber Number: 01268

Completion Date:

3-9-2018

Last Calibration: 5-23-2017

Signature/Date:

Taul Valpredo

Calibration due: 5-31-2018

Drop Test:

Catalog Z54X76MM

Weight 3.5 lbs. Drop Height: 15"

Drop	Orientation	Specific face, edge or	Initial	s/Date
1	Тор	Face 1	PV	3-12-2018
2	Edge	Edge 5-3	PV	3-12-2018
3	Edge	Edge 6-3	PV	3-12-2018
4	Corner	Corner 2-3-5	PV	3-12-2018
5	Corner	Corner 4-3-6	PV	3-12-2018
6	Bottom	Face 3	PV	3-12-2018

Comments:

All six identical boxes passed . - PV

Signature:

Paul Valpreda

Date: 3-12-2018

Compression Test:

Catalog 254x76MM

Pounds Force 210

Comments:

All six identical boxes passed - PV

Signature:

VaulValpreda

Date: 3-12-2018

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Printed on: 05 Mar 2018, 10:20:28 am; Printed by: TSKINNER.

Document Number Megadyne TEST REPORT ENG-RPT-581 Medical **Revision: 001** Products. **New Deantronics Yellow Label Stock EO** Inc. **Qualification** Page 34 of 36

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Appendix I Continued Shipping Test Log Sheet

30 2 2 2					
14.1	ı ba	ma.	† 57	3.17	

Low Frequency, 40 minutes, Initials PV __ High frequency 10 minutes, Initials __ PV

Completion Date:

Signature:

Paul Valgreda Date: 3-12-2018

Second Drop Test:

Catalog 254x76mm Weight 3.5 lbs.

Drop Height: 15"+30"

Drop	Orientation	Specific face, edge or	Initia	als/Date
1	Edge	Edge 4-6	PV	3-12-2018
2	Face	Face 4	24	3-12-2018
3	Face	Face 6	PV	3-12-2018
4	Corner	Corner 2-1-5	PV	3-12-2018
5	Edge	Edge 2-1	PV	3-12-2018
6	Bottom	Face 3, Increase height to 30 inches.	PV	3-12-2018

Paul Valpreda Date: 3-12-2018

Signature:

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12. APPENDIX IV – LABEL CLARITY AND LEGIBILITY

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Appendix II Label Clarity and Legibility Log Sheet

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

Catalog # ND-L100700	Pass	Fail
Clarity/Legibility	18 labels pass	ed. Ø
Comments: All 18 of and Legibility		Is passed the Clarity
Paul Valpredo		3 - 12 - 18 Date completed

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13. APPENDIX V – LABEL CERTIFICATE OF COMPLIANCE





Date: 10-24-2017

Certificate of Compliance

Talwan

Non-Countries Taken, List

12F, No.51 Sec 4, Chong Yang Rd, Tu Cheng Del, New Tapes Ob 2875, Tatwen RO.C.

> Tel: +880 2-2268-1726 Fee: +886 2-2268-3800

USA New Destitutes Ltd. 1990 North Celluras Blvd.

Sule 1040 Weinz Chee, CA 94595 Tel: +1 (025) 290-6398 Fac: +1 (025) 290-1798 Customer Name: MEGADYNE MEDICAL PRODUCTS, INC.

Invoice Number: N/A
P. O. Number: N/A
Customer P/N: 3151

Customer P/N: 3151074-01 Drawing Number: 3151074-01 Rev.001

 New Deantronics P/N:
 L100700

 Lot Number;
 17102401

 Quantity:
 100 Pieces

 Carton Number:
 #1 ~ #1 (1 Carton)

Signed: D. Y clan Printed Name: Da-Yu Chen

Title: Q.A. Director

 Materials
 Mat'l Lot#

 Plain Label
 L100700, Heat transfer art paper
 17101101

QR-002-2