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TEST REPORT

CUSTOMER : Salamander Jewelry Co.,Ltd.

M/C : SHINVA

Document No. : TR-EO-005040221

MODEL : XG 1 SERIES

Date : 4/2/2021

SERIAL No. : 070997

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PRODUCT : ORDER NO. 2335060

Determination of Sterilization Specification

Item Detail	Specification	Setting	Result
Chamber Setting Temperature	55.0 - 59.0 (°C)	59 (°C)	-
Vacuum Level	5-12 kPa	9 kPa	-
Vacuum Time (min)	50-60 min	60 min	-
Humidification			
Humidity (%)	50%-90%	87%	-
Sterilization			
Steri Temp	55.0 - 59.0 (°C)	55.0 (°C)	-
Jacket Temp	60.0 - 65.0 (°C)	65.0 (°C)	-
Gas Injection			
Final pressure (kpa(abs))	0.21-0.23 kPa	0.21 kPa	-
Final temperature of vaporizer,Temp 10 (°C)	55.0 - 59.0 (°C)	55 (°C)	-
Exposure			
Temperature at strat point of Exposure time period Temp. 1 (°C)	55.0 - 59.0 (°C)	60 (°C)	-
Temperature at finish point of Exposure time period Temp. 1 (°C)	55.0 - 59.0 (°C)	55 (°C)	-
Exposure Time (min)	390-420 min	420 min	-
Exhaust			
Exhaust Time (hour)	≥ 4 hour	4 hour	-
First Vacuum Level (kPa)	5-12 kPa	9 kPa	-
Second Vacuum Level (kPa)	5-12 kPa	9 kPa	-
Third Vacuum Level (kPa)	5-12 kPa	9 kPa	-
Storage			
Storage Time	≥ 48 hour	≥ 48 hour	-
Chemical tested, Sterile Strip			
EO sterilization temperatures 55-60 C° Time sterile by EO 7 hours .	Brown	Brown	Pass
Biological Test			
EZ Test Biological Indicator	Brown	Brown	Pass
24 hour results for EO	Red	Red	Pass

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SAMPLE SLIP PARAMETER

EXHAUST:04H COMIN TOTAL :12H COMIN			
PRETT :01H 01MIN STERI :07H COMIN			
ACTUAL TIME			
08:38:53 STEILIZATION SUCCESS			
END	08:38:42	060,60	001kPa
	08:38:42	060,60	001kPa
	04:39:17	061,40	-014kPa
EXHAUST	04:37:42	061,40	011kPa
	04:35:12	061,40	011kPa
	04:25:12	061,50	011kPa
	04:15:12	061,60	011kPa
	04:05:12	061,70	011kPa
	03:55:12	061,80	011kPa
	03:45:11	061,90	011kPa
	03:35:11	062,10	011kPa
	03:25:11	062,20	011kPa
	03:15:11	062,20	011kPa
	03:05:11	062,40	011kPa
	02:55:11	062,60	011kPa
	02:45:11	062,80	011kPa
	02:35:11	062,90	011kPa
	02:25:11	063,10	011kPa
	02:15:11	063,40	011kPa
	02:05:11	063,50	011kPa
	01:55:11	063,60	011kPa
	01:45:11	063,80	011kPa
	01:35:11	063,90	011kPa
	01:25:11	064,10	011kPa
	01:15:11	064,30	011kPa
	01:05:11	064,50	011kPa
	00:55:11	064,70	011kPa
	00:45:11	064,80	011kPa

	00:35:11	065,00	011kPa
	00:25:11	065,20	011kPa
	00:15:11	065,20	011kPa
	00:05:11	065,30	011kPa
	23:55:11	065,50	011kPa
	23:45:11	065,60	011kPa
	23:35:11	065,60	011kPa
	23:25:11	065,60	011kPa
	23:15:11	065,70	011kPa
	23:05:11	065,90	011kPa
	22:55:11	065,80	011kPa
	22:45:11	065,90	011kPa
	22:35:11	066,00	011kPa
	22:25:11	066,00	011kPa
	22:15:11	066,00	012kPa
	22:05:11	066,10	012kPa
	21:55:11	065,90	012kPa
	21:45:11	065,90	120kPa
STERI	21:38:09	066,00	311kPa
	21:35:11	066,20	-001kPa
	21:25:11	066,00	-022kPa
ADD ED	21:18:28	065,70	-087kPa
	21:15:11	065,40	-001kPa
HUMIDI	21:08:25	063,80	-087kPa
PRETT	21:05:11	063,00	003kPa
PREHEAT	20:36:49	059,60	002kPa
STATE	TIME	TEMP	PRE
RUN COUNT : 0364			
ED PRE :060kPa VENT TIME:04H COM			
STERI TEMP: 065,00 STERI TIME:07H COM			
PRO TIP 20:36:49 059,60 002kPa			
START TIME: 2021-02-03 20:36:41			

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PROCESS FLOW CHART OF STERILIZATION

- > loading > into the chamber > door close > program starts
- > preprocessing > EO entry > sterilization
- > later processing > ventilation > air entry > the end
- > door open > unloading.

We here by certificate that following products were sterilized by E.O. at CITY MEDICAL SUPPLY CO.,LTD .

The result of sterilization by biological indicator are passed.

CODE	Iteme	Color	Lot. No	TOTAL QUANTITY	STERILIZED DATE
THD-Z-TBC-1.0-10.0-4	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			300	
THD-Z-TBC-1.0-8.0-4	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			300	
THD-Z-TBC-1.2-10.0-4	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			700	
THD-Z-TBC-1.2-12.0-4	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			150	
THD-Z-TBC-1.2-8.0-4	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			500	
THD-Z-TBC-1.6-10.0-4	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			200	
THD-Z-TBC-1.6-14.0-5	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			150	
THD-Z-TBL-1.6-10.0-4	STERILE TITANIUM BARBELL FOR THENDRO			400	
THD-Z-TBL-1.6-12.0-4	STERILE TITANIUM BARBELL FOR THENDRO			400	
THD-Z-TBL-1.6-14.0-4	STERILE TITANIUM BARBELL FOR THENDRO			900	
THD-Z-TBL-1.6-8.0-4	STERILE TITANIUM BARBELL FOR THENDRO			250	
THD-Z-TCB-1.6-10.0-4	STERILE TITANIUM CIRCULAR BARBELL FOR THENDRO			300	
THD-Z-TCB-1.6-12.0-4	STERILE TITANIUM CIRCULAR BARBELL FOR THENDRO			96	
THD-Z-TJNO-1.0-6.5-1.8-CR	STERILE TITANIUM JEWELED CURVED NOSE STUD FOR THENDRO			1000	
THD-Z-TLB-1.6-10.0-4	STERILE TITANIUM LABRET FOR THENDRO			200	
THD-Z-TLB-1.6-12.0-4	STERILE TITANIUM LABRET FOR THENDRO			150	
THD-Z-TLB-1.6-8.0-4	STERILE TITANIUM LABRET FOR THENDRO		LOT-0222	200	3 Feb 21
THD-Z-TMBL-1.2-10.0-3	STERILE TITANIUM MICRO BARBELL FOR THENDRO			1000	
THD-Z-TMBL-1.2-6.0-3	STERILE TITANIUM MICRO BARBELL FOR THENDRO			150	
THD-Z-TMBL-1.2-8.0-3	STERILE TITANIUM MICRO BARBELL FOR THENDRO			1000	
THD-Z-TMBN-1.2-8.0-3	STERILE TITANIUM MICRO CURVED BARBELL FOR THENDRO			400	
THD-Z-TMCB-1.2-10.0-3	STERILE TITANIUM MICRO CIRCULAR BARBELL FOR THENDRO			600	
THD-Z-TMCB-1.2-8.0-3	STERILE TITANIUM MICRO CIRCULAR BARBELL FOR THENDRO			300	
THD-Z-TMLB-1.2-6.0-3	STERILE TITANIUM MICRO LABRET FOR THENDRO			150	
THD-Z-TMLB-1.2-8.0-3	STERILE TITANIUM MICRO LABRET FOR THENDRO			800	
TDI-Z-TBL-1.6-14.0-5	STERILE TITANIUM BARBELL FOR TDI			300	
TDI-Z-TBL-1.6-34.0-5	STERILE TITANIUM BARBELL FOR TDI			100	
TDI-Z-TBL-1.6-36.0-5	STERILE TITANIUM BARBELL FOR TDI			50	
TDI-Z-TBL-1.6-38.0-5	STERILE TITANIUM BARBELL FOR TDI			100	
TDI-Z-TBNDJ-OP-1.6-10.0-5/8-RO	STERILE TITANIUM JEWELED NAVEL BANANA FOR TDI			25	
TDI-Z-TCOBC-1.0-8.0	STERILE TITANIUM SEAMLESS RING FOR TDI			50	
TDI-Z-TCOBC-1.0-9.0	STERILE TITANIUM SEAMLESS RING FOR TDI			50	
TDI-Z-TINDAJD-1.6-2.0-4-CR	STERILE TITANIUM INTERNALLY THREADED DERMAL ANCHOR WITH JEWELED DISC FOR TDI			100	
TDI-Z-TONR-1.0-8.0-2.5	STERILE TITANIUM OPEN NOSE RING FOR TDI			100	
TDI-Z-TBL-1.6-16.0-5	STERILE TITANIUM BARBELL FOR TDI			200	
TDI-Z-TBL-1.6-20.0-5	STERILE TITANIUM BARBELL FOR TDI			200	

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CODE	Iteme	Color	Lot. No	TOTAL QUANTITY	STERILIZED DATE
TDI-Z-TINBL-1.6-14.0-5	STERILE TITANIUM INTERNALLY THREADED BARBELL FOR TDI			50	
TDI-Z-TINMLB-1.2-8.0-2	STERILE TITANIUM INTERNALLY THREADED MICRO LABRET FOR TDI			100	
TDI-Z-TINMLBJ-1.2-10.0-2-CR	STERILE TITANIUM INTERNALLY THREADED JEWELED MICRO LABRET FOR TDI			100	
TDI-Z-TINMLBJ-1.2-6.0-2-CR	STERILE TITANIUM INTERNALLY THREADED JEWELED MICRO LABRET FOR TDI			100	
TDI-Z-TINMLBJ-1.2-8.0-2-CR	STERILE TITANIUM INTERNALLY THREADED JEWELED MICRO LABRET FOR TDI			100	
TDI-Z-TLB-1.6-10.0-4	STERILE TITANIUM LABRET FOR TDI			200	
TDI-Z-BL-1.6-16.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			100	
TDI-Z-BL-1.6-22.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			50	
TDI-Z-LB-1.6-8.0-4	STERILE SURGICAL STEEL LABRET FOR TDI			100	
TDI-Z-MBN-1.2-10.0-3	STERILE SURGICAL STEEL MICRO CURVED BARBELL FOR TDI			100	
TDI-Z-TMLBJ-1.2-8.0-2.5-CR	STERILE TITANIUM MICRO LABRET WITH JEWELED BALL FOR TDI			200	
TDI-Z-BL-1.6-14.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			100	
TDI-Z-CB-1.6-10.0-4	STERILE SURGICAL STEEL CIRCULAR BARBELL FOR TDI			100	
TDI-Z-TBL-1.6-14.0-5	STERILE TITANIUM BARBELL FOR TDI			200	
TDI-Z-TBN-1.6-10.0-4	STERILIZED TITANIUM CURVED BARBELL FOR TDI			100	
TDI-Z-TBN-1.6-12.0-4	STERILIZED TITANIUM CURVED BARBELL FOR TDI			50	
TDI-Z-TMBL-1.2-12.0-3-HP	STERILE TITANIUM MICRO BARBELL FOR TDI			100	
TDI-Z-TMBN-1.2-9.0-3	STERILE TITANIUM MICRO CURVED BARBELL FOR TDI			100	
TDI-Z-TNO-1.0-6.5-2.5	STERILE TITANIUM TITANIUM CURVED BALL NOSE STUD FOR TDI		LOT-0222	100	3 Feb 21
TDI-Z-BL-1.6-18.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			200	
TDI-Z-BL-1.6-20.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			100	
TDI-Z-BL-1.6-34.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			50	
TDI-Z-BL-1.6-36.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			50	
TDI-Z-LB-1.6-10.0-4	STERILE SURGICAL STEEL LABRET FOR TDI			100	
TDI-Z-MBL-1.2-8.0-3	STERILE SURGICAL STEEL MICRO BARBELL FOR TDI			100	
TDI-Z-MBN-1.2-10.0-3	STERILE SURGICAL STEEL MICRO CURVED BARBELL FOR TDI			100	
TDI-Z-MCB-1.2-10.0-3	STERILE SURGICAL STEEL MICRO CIRCULAR BARBELL FOR TDI			100	
TDI-Z-MLB-1.2-12.0-3	STERILIZED SURGICAL STEEL MICRO LABRET FOR TDI			100	
TDI-Z-TMLB-1.2-8.0-2.5	STERILE TITANIUM MICRO LABRET FOR TDI			200	
TDI-Z-TNO-1.0-6.5-2	STERILE TITANIUM TITANIUM CURVED BALL NOSE STUD FOR TDI			100	
TDI-Z-BL-1.6-38.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			50	
TDI-Z-BL-1.6-16.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			100	
TDI-Z-TMLB-1.2-8.0-3	STERILE TITANIUM MICRO LABRET FOR TDI			300	
PT-Z-TBL-1.6-16.0-5	STERILIZED TITANIUM BARBELL FOR PTIT ROC			300	
PT-Z-TMLB-1.2-10.0-3	STERILE TITANIUM MICRO LABRET FOR PTIT ROC			142	
PT-Z-TBL-1.6-14.0-5	STERILIZED TITANIUM BARBELL FOR PTIT ROC			802	
PT-Z-TBL-1.6-20.0-5	STERILIZED TITANIUM BARBELL FOR PTIT ROC			843	
PT-Z-TCB-1.6-10.0-4	STERILIZED TITANIUM BARBELL FOR PTIT ROC			55	
TDI-Z-TINBNDJOP-1.6-12.0-5-CR	STERILE TITANIUM INTERNALLY THREADED DOUBLE SWAROVSKI CRYSTAL JEWELED NAVEL BANANA FOR TDI			100	
Z-TBL-1.6-16.0-5-HP	STERILE TITANIUM BARBELL			48	

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