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## TEST REPORT

CUSTOMER : Salamander Jewelry Co.,Ltd.

**M/C** : SHINVA

Document No. : TR-EO-003120320

**MODEL** : XG 1 SERIES

Date : 12/3/2020

**SERIAL No.** : 070997

Page : 1 / 5

PRODUCT : ORDER NO. 2297817

### 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	-
<b>Humidification</b>			
Humidity (%)	50%-90%	87%	-
<b>Sterilization</b>			
Steri Temp	55.0 - 59.0 (°C)	55.0 (°C)	-
Jacket Temp	60.0 - 65.0 (°C)	65.0 (°C)	-
<b>Gas Injection</b>			
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)	-
<b>Exposure</b>			
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	-
<b>Exhaust</b>			
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	-
<b>Storage</b>			
Storage Time	≥ 48 hour	≥ 48 hour	-
<b>Chemical tested, Sterile Strip</b>			
EO sterilization temperatures 55-60 C° Time sterile by EO 7 hours .	Brown	Brown	Pass
<b>Biological Test</b>			
EZ Test Biological Indicator	Brown	Brown	Pass
24 hour results for EO	Red	Red	Pass

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Page : 2 / 5

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## SAMPLE SLIP PARAMETER

EXHAUST:04H 00MIN		TOTAL :11H 48MIN	
PRETT :00H 47MIN		STERI :07H 00MIN	
ACTUAL TIME			
04:54:44 STEILIZATION SUCCESS			
END	04:54:33	057,50	000kPa
	04:54:33	057,50	000kPa
	00:55:36	057,90	-015kPa
	00:55:03	057,90	000kPa
EXHAUST	00:53:33	057,90	-001kPa
	00:45:03	058,00	-001kPa
	00:35:03	058,00	001kPa
	00:25:03	058,00	000kPa
	00:15:03	058,20	-001kPa
	00:05:03	058,30	-002kPa
	23:55:03	058,30	-001kPa
	23:45:03	058,20	-001kPa
	23:35:03	058,40	-001kPa
	23:25:03	058,60	-001kPa
	23:15:03	058,60	-001kPa
	23:05:03	058,70	-001kPa
	22:55:03	058,90	-001kPa
	22:45:03	058,90	-001kPa
	22:35:03	059,00	-001kPa
	22:25:03	059,20	000kPa
	22:15:03	059,20	-001kPa
	22:05:03	059,20	-002kPa
	21:55:03	059,40	-002kPa
	21:45:03	059,50	-001kPa
	21:35:03	059,60	-001kPa
	21:25:03	059,60	-001kPa
	21:15:03	059,70	-001kPa
	21:05:03	059,80	-001kPa
	20:55:03	059,80	-001kPa

	20:45:03	059,90	-001kPa
	20:35:03	060,00	-001kPa
	20:25:03	060,10	000kPa
	20:15:03	060,10	-001kPa
	20:05:03	060,00	000kPa
	19:55:03	060,10	-001kPa
	19:45:03	060,20	-001kPa
	19:35:03	060,20	000kPa
	19:25:03	060,20	000kPa
	19:15:03	060,20	000kPa
	19:05:03	060,20	000kPa
	18:55:03	060,10	000kPa
	18:45:03	060,10	001kPa
	18:35:03	059,90	002kPa
	18:25:03	059,70	001kPa
	18:15:03	059,70	001kPa
	18:05:03	059,80	002kPa
	17:55:03	058,90	147kPa
STERI	17:53:54	059,20	212kPa
ADD ED	17:48:43	059,40	-089kPa
	17:45:03	059,20	000kPa
HUMIDI	17:38:41	059,10	-089kPa
PRETT	17:35:03	058,90	000kPa
PRHEAT	17:06:29	057,70	002kPa
STATE	TIME	TEMP	PRE

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RUN COUNT : 2877

ED PRE :060kPa VENT TIME:04H 00M

STERI TEMP: 058,00 STERI TIME:07H 00M

PRD TYP 17:06:29 057,70 002kPa

START TIME: 2020-03-10 17:06:21

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Page : 3 / 5

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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
PT-Z-TBCH-1.2-10.0-4	STERILE TITANIUM BALL CLOSURE RING WITH HEMATITE BALL FOR PTIT ROC			202	
PT-Z-TBCH-1.2-12.0-4	STERILE TITANIUM BALL CLOSURE RING WITH HEMATITE BALL FOR PTIT ROC			55	
PT-Z-TBCH-1.2-8.0-4	STERILE TITANIUM BALL CLOSURE RING WITH HEMATITE BALL FOR PTIT ROC			188	
PT-Z-TBL-1.6-14.0-5	STERILIZED TITANIUM BARBELL FOR PTIT ROC			234	
PT-Z-TBL-1.6-18.0-5	STERILIZED TITANIUM BARBELL FOR PTIT ROC			98	
PT-Z-TBL-1.6-20.0-5	STERILIZED TITANIUM BARBELL FOR PTIT ROC			171	
PT-Z-TBNDJ-1.6-10.0-5/8-CR	STERILE TITANIUM DOUBLE JEWELLED NAVEL BANANA FOR PTIT ROC			73	
PT-Z-TBNJ-1.6-12.0-5/8-CR	STERILE TITANIUM JEWELLED NAVEL BANANA FOR PTIT ROC			134	
PT-Z-TCB-1.6-12.0-4	STERILE TITANIUM 90 DEGREE STAPLE BARBELL FOR PTIT ROC			30	
PT-Z-TJNO-0.8-6.5-2.35-CR	STERILE TITANIUM JEWELLED CURVED NOSE STUD FOR PTIT ROC			464	
PT-Z-TMBL-1.2-10.0-3-HP	STERILE TITANIUM MICRO BARBELL FOR PTIT ROC			170	
PT-Z-TMBL-1.2-8.0-3-HP	STERILE TITANIUM MICRO BARBELL FOR PTIT ROC			458	
PT-Z-TMBN-1.2-10.0-3	STERILE TITANIUM MICRO CURVED BARBELL FOR PTIT ROC			802	
PT-Z-TMBN-1.2-12.0-3	STERILE TITANIUM MICRO CURVED BARBELL FOR PTIT ROC			123	
PT-Z-TMBN-1.2-8.0-3	STERILE TITANIUM MICRO CURVED BARBELL FOR PTIT ROC			720	
PT-Z-TMCB-1.2-8.0-3	STERILE TITANIUM MICRO CIRCULAR BARBELL FOR PTIT ROC			110	
PT-Z-TMLB-1.2-10.0-3	STERILE TITANIUM MICRO LABRET FOR PTIT ROC		LOT-0184	485	10 Mar 20
PT-Z-TMLB-1.2-8.0-3	STERILE TITANIUM MICRO LABRET FOR PTIT ROC			769	
PT-Z-TMLB-1.2-9.0-3	STERILE TITANIUM MICRO LABRET FOR PTIT ROC			1040	
PT-Z-TMLBJ-1.2-10.0-2.5-CR	STERILE TITANIUM MICRO LABRET WITH JEWELLED BALL FOR PTIT ROC			466	
PT-Z-XBL-1-1.6-16.0-5-CL	STERILE BIOFLEX BARBELL WITH STEEL BALLS FOR PTIT ROC			65	
PT-Z-XLB-1-1.6-10.0-3-CL	STERILE BIOFLEX LABRET WITH STEEL BALL FOR PTIT ROC			51	
PT-Z-XMBN-1-1.2-8.0-3-CL	STERILE BIOFLEX MICRO CURVED BARBELL WITH STEEL BALLS FOR PTIT ROC			52	
PT-Z-XMLB-1-1.2-10.0-3-CL	STERILE BIOFLEX MICRO LABRET WITH STEEL BALL FOR PTIT ROC			270	
PT-Z-XMLB-1-1.2-12.0-3-CL	STERILE BIOFLEX MICRO LABRET WITH STEEL BALL FOR PTIT ROC			147	
TDI-Z-TBN-1.6-12.0-4	STERILIZED TITANIUM CURVED BARBELL FOR TDI			100	
TDI-Z-TBN-1.6-8.0-4	STERILIZED TITANIUM CURVED BARBELL FOR TDI			100	
TDI-Z-TLB-1.6-10.0-4	STERILE TITANIUM LABRET FOR TDI			100	
TDI-Z-TMBN-1.2-10.0-3	STERILE TITANIUM MICRO CURVED BARBELL FOR TDI			200	
TDI-Z-TMBN-1.2-12.0-3	STERILE TITANIUM MICRO CURVED BARBELL FOR TDI			100	
TDI-Z-TMBN-1.2-8.0-3	STERILE TITANIUM MICRO CURVED BARBELL FOR TDI			100	
TDI-Z-TMCB-1.2-10.0-3	STERILE TITANIUM MICRO CIRCULAR BARBELL FOR TDI			200	
TDI-Z-TMCB-1.2-8.0-3	STERILE TITANIUM MICRO CIRCULAR BARBELL FOR TDI			100	
TDI-Z-TMLB-1.2-12.0-2.5	STERILE TITANIUM MICRO LABRET FOR TDI			100	
TDI-Z-TMLB-1.2-12.0-3	STERILE TITANIUM MICRO LABRET FOR TDI			100	
TDI-Z-TMLBJ-1.2-10.0-2.5-CR	STERILE TITANIUM MICRO LABRET WITH JEWELLED BALL FOR TDI			100	

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Page : 4 / 5

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TDI-Z-TMLBJ-OP-1.2-8.0-3-CR	STERILE TITANIUM MICRO LABRET WITH JEWELLED BALL FOR TDI			400	
TDI-Z-TINBL-1.6-18.0-5	STERILE TITANIUM INTERNALLY THREADED BARBELL FOR TDI			50	
TDI-Z-TINMBL-1.2-8.0-3	STERILE TITANIUM INTERNALLY THREADED MICRO BARBELL FOR TDI			100	
TDI-Z-TINMCB-1.2-10.0-3	STERILE TITANIUM INTERNALLY THREADED MICRO CIRCULAR BARBELL FOR TDI			50	
TDI-Z-TINMLB-1.2-6.0-3	STERILE TITANIUM INTERNALLY THREADED MICRO LABRET FOR TDI			100	
TDI-Z-BC-1.6-10.0-5	STERILE SURGICAL STEEL BALL CLOSURE RING FOR TDI			25	
TDI-Z-BKMML-1.2-8.0-3	STERILEBLACK PVD COATED SURGICAL STEEL MICRO BARBELL FOR TDI			35	
TDI-Z-BL-1.6-22.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			50	
TDI-Z-BL-1.6-36.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			50	
TDI-Z-BL-1.6-38.0-5	STERILE SURGICAL STEEL BARBELL FOR TDI			50	
TDI-Z-BNN-1.6-10.0-5/8	STERILE SURGICAL STEEL NAVEL BANANA FOR TDI			50	
TDI-Z-CNO-0.8-6.5-2	STERILE SURGICAL STEEL CURVED BALL NOSE STUD FOR TDI			50	
TDI-Z-HCOBC-1.2-10.0	STERILE SURGICAL STEEL OPEN HEART SEAMLESS RING FOR TDI			50	
TDI-Z-JNO-OP-1.0-6.5-2.35-CR	STERILE SURGICAL STEEL CZECH CRYSTAL JEWELLED CURVED NOSE STUD FOR TDI			100	
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-MBN-1.2-12.0-3	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-MCB-1.2-8.0-3	STERILE SURGICAL STEEL MICRO CIRCULAR BARBELL FOR TDI			100	
TDI-Z-MLB-1.2-10.0-3	STERILIZED SURGICAL STEEL MICRO LABRET FOR TDI			100	
TDI-Z-MLB-1.2-8.0-3	STERILIZED SURGICAL STEEL MICRO LABRET FOR TDI			100	
TDI-Z-MLBJ-OP-1.2-10.0-3-CR	STERILE SURGICAL STEEL CZECH CRYSTAL JEWELLED MICRO LABRET FOR TDI			200	
TDI-Z-MLBJ-OP-1.2-8.0-3-CR	STERILE SURGICAL STEEL CZECH CRYSTAL JEWELLED MICRO LABRET FOR TDI		LOT-0184	100	10 Mar 20
Z-MCB-1.2-10.0-3	STERILE SURGICAL STEEL MICRO CIRCULAR BARBELL			100	
Z-MCB-1.2-8.0-3	STERILE SURGICAL STEEL MICRO CIRCULAR BARBELL			100	
Z-BL-1.6-10.0-5	STERILE SURGICAL STEEL BARBELL			10	
Z-BL-1.6-38.0-5	STERILE SURGICAL STEEL BARBELL			15	
Z-LJNO-1.0-6.5-1.8-CR	STERILE SURGICAL STEEL LARGE CURVE JEWELLED NOSE STUD			50	
TDI-Z-TBC-1.2-10.0-4	STERILE TITANIUM BALL CLOSURE RING FOR TDI			100	
TDI-Z-TBCS-1.2-8.0	STERILE TITANIUM SMOOTH SEGMENT RING FOR TDI			100	
TDI-Z-TBL-1.6-22.0-5	STERILE TITANIUM BARBELL FOR TDI			100	
TDI-Z-TBL-1.6-34.0-5	STERILE TITANIUM BARBELL FOR TDI			50	
TDI-Z-TBL-1.6-36.0-5	STERILE TITANIUM BARBELL FOR TDI			50	
TDI-Z-TBNN-1.6-12.0-5/8	STERILE TITANIUM NAVEL BANANA FOR TDI			100	
Z-TMBL-1.2-8.0-3-HP	STERILE TITANIUM MICRO BARBELL			150	
Z-TMBN-1.2-10.0-3-HP	STERILE TITANIUM MICRO CURVED BARBELL			20	
Z-TMBN-1.2-8.0-3-HP	STERILE TITANIUM CURVED MICRO BARBELL			20	
Z-BL-1.6-29.0-5	STERILE SURGICAL STEEL BARBELL			50	
Z-BNJ-1.6-10.0-5/8-CR	STERILE SURGICAL STEEL JEWELLED NAVEL BANANA			50	
Z-BN-1.6-12.0-4	STERILE SURGICAL STEEL CURVED BARBELL			20	
Z-MLBJ-1.2-8.0-2.5-CR	STERILE SURGICAL STEEL JEWELLED MICRO LABRET			20	
THD-Z-TBC-1.0-8.0-4	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			700	
THD-Z-TBC-1.2-10.0-4	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			1800	
THD-Z-TBC-1.6-12.0-4	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			100	
THD-Z-TBC-1.6-8.0-4	STERILE TITANIUM BALL CLOSURE RING FOR THENDRO			198	
THD-Z-TBL-1.6-10.0-4	STERILE TITANIUM BARBELL FOR THENDRO			800	
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			2000	

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