

Test Code	Test Name	Testing Description
MC-100S	STERRAD 100S Cycles	Materials Compatibility testing in the STERRAD 100S process. This test is also sometimes referred to as Reusability Testing, Functional Compatibility Testing or Limits of Reuse. The device or material is typically run through one or more STERRAD 100S cycles. The objective of this testing is to look for degradation after repeated cycles. STERRAD 100S Feasibility Testing is also performed under this code.
SE-100S	STERRAD 100S Efficacy	<p>Sterilization Efficacy testing in the STERRAD 100S process. This is a 55-minute cycle used for most surgical instruments. Please refer to ASP's website for complete instrument processing information. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a STERRAD 100S cycle will sterilize the device/devices being tested.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>
MC-NX	STERRAD NX Cycles	Materials Compatibility testing in the STERRAD NX process. This test is also sometimes referred to as Reusability Testing, Functional Compatibility Testing or Limits of Reuse. The device or material is typically run through one or more STERRAD NX cycles. The objective of this testing is to look for degradation after repeated cycles. STERRAD NX Feasibility Testing is also performed under this code.
SE-NX-STD	STERRAD NX STD Cycle Efficacy	<p>Sterilization Efficacy testing in the STERRAD NX Standard cycle. This is a 28-minute cycle used for most surgical instruments, including specific sizes of single channel stainless steel lumens. Please refer to ASP's website for complete instrument processing information. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a STERRAD NX Standard cycle will sterilize the device/devices being tested.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>
SE-NX-ADV	STERRAD NX ADV Cycle Efficacy	<p>Sterilization Efficacy testing in the STERRAD NX Advanced cycle. This is a 38-minute cycle used for most surgical instruments, including specific sizes of flexible endoscopes. Please refer to ASP's website for complete instrument processing information. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a STERRAD NX Advanced cycle will sterilize the device/devices being tested.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>
MC-100NX	STERRAD 100NX Cycles	Materials Compatibility testing in the STERRAD 100NX process. This test is also sometimes referred to as Reusability Testing, Functional Compatibility Testing or Limits of Reuse. The device or material is typically run through one or more STERRAD 100NX cycles. The objective of this testing is to look for degradation after repeated cycles. STERRAD 100NX Feasibility Testing is also performed under this code.
SE-100NX-STD	STERRAD 100NX STD Cycles	<p>Sterilization Efficacy testing in the STERRAD 100NX Standard cycle. This is a 47-minute cycle used for most general surgical instruments including specific sizes of single channel stainless steel lumens. Please refer to ASP's website for complete instrument processing information. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a STERRAD 100NX Standard cycle will sterilize the device/devices being tested.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>

SE-100NX-EXP	STERRAD 100NX EXP Cycles	<p>Sterilization Efficacy testing in the STERRAD 100NX Express cycle. This is a 24-minute cycle used for general medical devices requiring surface sterilization, or sterilization of mated stainless steel and titanium surfaces also specific sizes of rigid or semi-rigid endoscopes. Currently not indicated for Polyurethane, mated Delrin®, mated Ultem®, and mated Aluminum. Please refer to ASP's website for complete instrument processing information. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a STERRAD 100NX Express cycle will sterilize the device/devices being tested.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>
SE-100NX-FLX	STERRAD 100NX Flex Cycles	<p>Sterilization Efficacy testing in the STERRAD 100NX Flex cycle. This is a 42-minute cycle used for specific sizes of single channel flexible endoscopes. Please refer to ASP's website for complete instrument processing information. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a STERRAD 100NX Flex cycle will sterilize the device/devices being tested.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>
SE-100NX-DUO	STERRAD 100NX Duo Cycles	<p>Sterilization Efficacy testing in the STERRAD 100NX Duo cycle. This is a 60-minute cycle used for specific sizes of single channel flexible endoscopes, flexible endoscopes without lumens, cameras and accessories (light cords). Please refer to ASP's website for complete instrument processing information. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a STERRAD 100NX Duo cycle will sterilize the device/devices being tested.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>
RESID-H2O2	Residual H2O2	Residual Testing of hydrogen peroxide on devices or materials after exposure to the vaporized hydrogen peroxide sterilization process.

Steam Pre-Vacuum/Gravity/Steam Flush Pressure Pulse (SFPP)

Test Code	Test Name	Testing Description
MC-STEAM	Steam Material Compatibility	Materials Compatibility testing in the steam sterilization process. This test is also sometimes referred to as Reusability Testing, Functional Compatibility Testing or Limits of Reuse. The device or material is typically run through one or more steam cycles. The objective of this testing is to look for degradation after repeated cycles. Steam Sterilization Feasibility Testing is also performed under this code.
SE-STEAM	Steam Sterilization Efficacy	<p>Sterilization Efficacy testing in the steam gravity or dynamic air removal (prevacuum or SFPP) process. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a steam cycle will sterilize the device/devices being tested.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>
TP-STEAM	Steam Thermal Profile Study	Thermal Profiles are performed to demonstrate that proper sterilant penetration and thermal conditions can be achieved and maintained in the sterilizer chamber or packaging system within a sterilizer chamber. Temperature sensors are set in locations throughout the chamber or packaging system to determine if proper exposure temperatures occur during the exposure cycle.

DT-STEAM	Steam Dry Time	Dry Time studies are necessary to ensure that all forms of moisture are minimized following sterilization processing. Moisture could provide a vector for microorganisms to enter a packaging system and contaminate the items within. There are many variables that can cause a sterilization packaging system to retain moisture.
VAL-ST55	AAMI ST-55 Sterilizer Validation	The validation of a steam tabletop sterilizer (sterilizer with less than 2 ft. ³ of chamber space) to ensure it meets the AAMI ST-55 Standard.
VAL-ST8	AAMI ST-08 Sterilizer Validation	The validation of a steam hospital sterilizer (sterilizer with more than 2 ft. ³ of chamber space) to ensure it meets the AAMI ST-08 Standard.

Ethylene Oxide

Test Code	Test Name	Testing Description
MC-ETO	ETO Cycles @725mg/l or 883mg/l	Materials Compatibility testing in the ethylene oxide (ETO) sterilization process. This test is also sometimes referred to as Reusability Testing, Functional Compatibility Testing or Limits of Reuse. The device or material is typically run through one or more ETO cycles. The objective of this testing is to look for degradation after repeated cycles. ETO Sterilization Feasibility Testing is also performed under this code.
SE-ETO	ETO Efficacy Validation	Sterilization Efficacy testing in the ethylene oxide sterilization process. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively an ETO cycle will sterilize the device/devices being tested. A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10 ⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10 ⁻¹² SAL (sterility assurance level).
RESID-ETO	ETO Residual Testing	Residual Testing of ethylene oxide residuals on devices or materials after exposure to the ETO sterilization process. Testing assures that the device/material is within acceptable safety limits and provides proper documentation of ethylene oxide and ethylene chlorohydrin (a by-product of EO sterilization) residuals.

Dry Heat

Test Code	Test Name	Test Description
MC-DRY	Dry Heat Cycles	Materials Compatibility testing in the Dry Heat sterilization process. This test is also sometimes referred to as Reusability Testing, Functional Compatibility Testing or Limits of Reuse. The device or material is typically run through one or more Dry Heat cycles. The objective of this testing is to look for degradation after repeated cycles. Dry Heat Sterilization Feasibility Testing is also performed under this code.
SE-DRY	Dry Heat Efficacy	Sterilization Efficacy testing in the Dry Heat sterilization process. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a Dry Heat cycle will sterilize the device/devices being tested. A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10 ⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10 ⁻¹² SAL (sterility assurance level).
TP-DRY	Dry Heat Thermal Profile Study	Thermal Profiles are performed to demonstrate that proper penetration and thermal conditions can be achieved and maintained in the sterilizer chamber or packaging system within a sterilizer chamber. Temperature sensors are set in locations throughout the chamber or packaging system to determine if proper exposure temperatures occur during the exposure cycle.

STERIS V-PROPlus H2O2

Test Code	Test Name	Test Description
MC-VPRO	V-Pro Lumen/Non-lumen cycles	Materials Compatibility testing in the STERIS V-Pro sterilization process. This test is also sometimes referred to as Reusability Testing or Limits of Reuse. The device or material is typically run through one or more V-Pro cycles. The objective of this testing is to look for degradation after repeated cycles. V-Pro Sterilization Feasibility Testing is also performed under this code.

Chemical Immersion

Test Code	Test Name	Test Description
SE-COLD	Chemical Immersion	<p>Sterilization Efficacy test used to determine how effectively chemical immersion will sterilize a device being tested. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a cold or heated soak in chemicals will sterilize the device/devices being immersed.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>

Chemical Vapor

Test Code	Test Name	Test Description
MC-CHEMI	Chemiclave Cycles	Materials Compatibility testing in the Chemiclave (Chemical Vapor) sterilization process. This test is also sometimes referred to as Reusability Testing, Functional Compatibility Testing or Limits of Reuse and is primarily run for devices used in the dental market. The device or material is typically run through one or more Chemiclave cycles. The objective of this testing is to look for degradation after repeated cycles. Chemiclave Sterilization Feasibility Testing is also performed under this code.
SE-CHEMI	Chemiclave Efficacy	<p>Sterilization Efficacy testing in the Chemiclave sterilization process. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing and is primarily run in the dental market. A test used to determine how effectively a Chemiclave cycle will sterilize the device/devices being tested.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>

Peracetic Acid

Test Code	Test Name	Test Description
MC-SS1	STERIS System 1 Cycles	Materials Compatibility testing in the STERIS System 1 liquid peracetic acid sterilization process. This test is also sometimes referred to as Reusability Testing, Functional Compatibility Testing or Limits of Reuse and is primarily run for devices used in the Canadian or European market. The device or material is typically run through one or more STERIS System 1 cycles. The objective of this testing is to look for degradation after repeated cycles. STERIS System 1 Sterilization Feasibility Testing is also performed under this code.
SE-SS1	STERIS System Efficacy	<p>Sterilization Efficacy testing in the STERIS System 1 sterilization process. This test is also sometimes referred to as ½ Cycle Testing, 100% Overkill Method or Sterilization Validation Testing. A test used to determine how effectively a STERIS System 1 cycle is.</p> <p>A device/devices are run in a sterilization cycle for half the time they normally would be run in a clinical environment with at least 10⁶ spores of a highly resistant organism being placed on the device/devices in locations that would be the most difficult to sterilize. A full cycle would indicate a kill rate of at least 10⁻¹² SAL (sterility assurance level).</p>

Resistometer Testing/ISO 11140

Test Code	Test Name	Test Description
RES-STEAM	Steam resistometer cycle	Resistometer Testing in an AAM/ISO compliant steam vessel, sometimes also called a BIER (biological indicator evaluator resistometer) vessel. Tests the performance of steam chemical and biological indicators.
RES-ETO	ETO resistometer cycle	Resistometer Testing in an AAM/ISO compliant ethylene oxide vessel, sometimes also called a BIER (biological indicator evaluator resistometer) vessel. Tests the performance of ETO chemical and biological indicators.
RES-DRY	Dry Heat resistometer Cycle	Resistometer Testing in an AAM/ISO compliant dry heat vessel, sometimes also called a BIER (biological indicator evaluator resistometer) vessel. Tests the performance of dry heat chemical and biological indicators.
RES-VHP	VHP resistometer cycle	Resistometer Testing in an AAM/ISO compliant hydrogen peroxide vessel, sometimes also called a BIER (biological indicator evaluator resistometer) vessel. Tests the performance of H2O2 chemical indicators.
RES-FORM	Formaldehyde resistometer cycle	Resistometer Testing in an AAM/ISO compliant Formaldehyde vessel, sometimes also called a BIER (biological indicator evaluator resistometer) vessel. Tests the performance of Formaldehyde chemical indicators.
CI-ISO1	Table 1 of ISO 11140-1: Steam	A steam chemical indicator is tested according to the ISO 11140-1 standard. The testing verifies that a class 1 process indicator meets the requirements of the ISO 11140-1 Standard. Test for ISO class 3, 4, 5 (integrating indicators) and 6 indicators (emulating indicators) are also tested under this code.
CI-ISO2	Table 2 of ISO 11140-1: Dry Heat	A dry heat chemical indicator is tested according to the ISO 11140-1 standard. The testing verifies that a class 1 process indicator meets the requirements of the ISO 11140-1 Standard. Test for ISO class 3, 4, 5 (integrating indicators) and 6 indicators (emulating indicators) are also tested under this code.
CI-ISO3	Table 3 of ISO 11140-1: ETO	An ethylene oxide chemical indicator is tested according to the ISO 11140-1 standard. The testing verifies that a class 1 process indicator meets the requirements of the ISO 11140-1 Standard. Test for ISO class 3, 4, 5 (integrating indicators) and 6 indicators (emulating indicators) are also tested under this code.
CI-ISO5	Table 5 of ISO 11140-1: Formaldehyde	A formaldehyde chemical indicator is tested according to the ISO 11140-1 standard. The testing verifies that a class 1 process indicator meets the requirements of the ISO 11140-1 Standard.
CI-ISO6	Table 6 of ISO 11140-1: VHP	A hydrogen peroxide chemical indicator is tested according to the ISO 11140-1 standard. The testing verifies that a class 1 process indicator meets the requirements of the ISO 11140-1 Standard. NOTE: Class 5/6 indicator testing available for above processes.

Accelerated Aging/Shelf Life

Test Code	Test Name	Test Description
SL-ETO	Real time shelf life after ETO exposure	A real time Shelf Life study after exposure to the ethylene oxide sterilization process. Demonstrates that a processed sterility packaging system can maintain a sterile barrier for a defined period of time. Articles are stored in a simulated central service department storage area.
SL-STERRAD	Real time shelf life after STERRAD exposure	A real time Shelf Life study after exposure to the STERRAD sterilization process. Demonstrates that a processed sterility packaging system can maintain a sterile barrier for a defined period of time. Articles are stored in a simulated central service department storage area.
SL-STEAM	Real time shelf life after Steam exposure	A real time Shelf Life study after exposure to the steam sterilization process. Demonstrates that a processed sterility packaging system can maintain a sterile barrier for a defined period of time. Articles are stored in a simulated central service department storage area.
SL-VPRO	Real time shelf life after V-Pro exposure	A real time Shelf Life studies after exposure to the V-Pro sterilization process. Demonstrates that a processed sterility packaging system can maintain a sterile barrier for a defined period of time. Articles are stored in a simulated central service department storage area.
SL-MSCL	Misc. Real time shelf life study	A miscellaneous real time Shelf Life study. Demonstrates that a processed sterility packaging system can maintain a sterile barrier for a defined period of time. Articles are stored in a simulated central service department storage area.

SL-ACCEL	Accelerated Aging – Shelf Life	Shelf Life testing in an accelerated aging chamber. The accelerated aging test simulates real-time shelf life by stressing the product to increased temperature, humidity and/or pressurized environment.
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Aerosol Challenge

Test Code	Test Name	Test Description
AC-STEAM	Steam Whole Package Integrity Test	An Aerosol Challenge test on a packaging system (wrap, rigid container or sterilization pouch) used as a microbial barrier. Is also known as a whole package integrity test. A packaging system is processed in a steam cycle and is then exposed to a high concentration of bacterial spores in an aerosol chamber. If the system maintains its package integrity there will be no microbial growth within the packaging system.
AC-ETO	ETO Whole Package Integrity Test	An Aerosol Challenge test on a packaging system (wrap, rigid container or sterilization pouch) used as a microbial barrier. Is also known as a whole package integrity test. A packaging system is processed in an ethylene oxide cycle and is then exposed to a high concentration of bacterial spores in an aerosol chamber. If the system maintains its package integrity there will be no microbial growth within the packaging system.
AC-STERRAD	STERRAD Whole Package Integrity Test	An Aerosol Challenge test on a packaging system (wrap, rigid container or sterilization pouch) used as a microbial barrier. Is also known as a whole package integrity test. A packaging system is processed in a STERRAD cycle and is then exposed to a high concentration of bacterial spores in an aerosol chamber. If the system maintains its package integrity there will be no microbial growth within the packaging system.
AC-VPRO	VPRO Whole Package Integrity Test	An Aerosol Challenge test on a packaging system (wrap, rigid container or sterilization pouch) used as a microbial barrier. Is also known as a whole package integrity test. A packaging system is processed in a V-Pro cycle and is then exposed to a high concentration of bacterial spores in an aerosol chamber. If the system maintains its package integrity there will be no microbial growth within the packaging system.
AC-CUSTOM	Custom Whole Package Integrity Test	An Aerosol Challenge test on a packaging system (wrap, rigid container or sterilization pouch) used as a microbial barrier. Is also known as a whole package integrity test. A packaging system is processed in a custom cycle and is then exposed to a high concentration of bacterial spores in an aerosol chamber. If the system maintains its package integrity there will be no microbial growth within the packaging system.

ISO 11607 Package Test

Test Code	Test Name	Test Description
DM-ISO	Dye Migration	Dye is added to the interior of the package (typically a sterilization pouch) and allowed to rest on the seal. If the seal is compromised the dye will visibly channel through the seal.
BT-ISO	Burst Test	The Burst Test will compromise the weakest seal on a package (typically a sterilization pouch) by pressurizing it. Air pressure is applied steadily until the package fails. The pressure where the package fails is documented and compared to the product specifications.
BE-ISO	Bubble Emission	The test is a “whole package” integrity test. A package (typically a sterilization pouch) is inflated to a pressure within its tolerance range and immersed in water. Bubbles coming from a single point can indicate that there is a failure in the package integrity.
SP-ISO	Seal Peel	The Seal Peel Test determines the amount of strength it takes to open a package (typically a sterilization pouch). A tensile machine is used with a one-inch sample of the package and the amount of force is measured in pounds per square inch. The results are documented and compared to the product specifications.

Sterility

Test Code	Test Name	Test Description
Sterility	Article Sterility Test	A test to determine if an item is sterile after processing. Sometimes used for routine quality control and release of processed industrial loads. Devices are typically tested by directly transferring the device into test media and incubating for 14 days.

Bioburden	Article Bioburden Test	A Bioburden test determines the total number of viable organisms on a device or product. Used to determine the amount of organisms created on the device through the manufacturing process, and assist in determining the proper challenge for sterility validation.
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Device Cleaning Validation

Test Code	Test Name	Test Description
MAN-3LOG	Manual TIR 12 – 3 log reduction	A device is inoculated with 10 ⁶ bacterial spores then run through a manual (Hand-washed) cleaning cycle. A 10 ³ reduction should occur in the number of bacterial spores after cleaning.
MEC-3LOG	Mechanical TIR 12 – 3 log reduction	A device is inoculated with 10 ⁶ bacterial spores then run through a mechanical cleaning cycle. A 10 ³ reduction should occur in the number of bacterial spores after cleaning.
MAN-PRO	Manual TIR 30 – Protein	A device is inoculated with a defined amount of protein over the surface of the device. The device is then processed according to the manufacturers' recommended manual cleaning protocol. After cleaning, soil left on device is compared to the defined acceptance criteria within TIR 30 or as defined in test protocol.
MEC-PRO	Mechanical TIR 30 – Protein	A device is inoculated with a defined amount of protein over the surface of the device. The device is then processed according to the manufacturers' recommended mechanical cleaning protocol. After cleaning, soil left on device is compared to the defined acceptance criteria within TIR 30 or as defined in test protocol.
MAN-TOC	Manual TOC	A device is inoculated with a defined amount of TOC (total organic carbon) over the surface of the device. The device is then processed according to the manufacturers' recommended manual cleaning protocol. After cleaning, soil left on device is compared to the defined acceptance criteria within TIR 30 or as defined in test protocol.
MEC-TOC	Mechanical TOC	A device is inoculated with a defined amount of TOC (total organic carbon) over the surface of the device. The device is then processed according to the manufacturers' recommended mechanical cleaning protocol. After cleaning, soil left on device is compared to the defined acceptance criteria within TIR 30 or as defined in test protocol.
MAN-HEMO	Manual Hemoglobin	A device is inoculated with a defined amount of Hemoglobin over the surface of the device. The device is then processed according to the manufacturers' recommended manual cleaning protocol. After cleaning, soil left on device is compared to the defined acceptance criteria within TIR 30 or as defined in test protocol.
MEC-HEMO	Mechanical Hemoglobin	A device is inoculated with a defined amount of Hemoglobin over the surface of the device. The device is then processed according to the manufacturers' recommended mechanical cleaning protocol. After cleaning, soil left on device is compared to the defined acceptance criteria within TIR 30 or as defined in test protocol.
MC-WASH	Mechanical Washer Repetitive Cleaning	Materials Compatibility testing of a device by evaluating the cleaning process according to the manufacturers' mechanical cleaning protocol a recommended number of times. Any degradation noted on the device is observed. This test is also sometimes referred to as Reusability Testing or Limits of Reuse. Cleaning Feasibility Testing is also performed under this code.
MC-MANUAL	Manual Wash Repetitive Cleaning	Materials Compatibility testing of a device by evaluating the cleaning process according to the manufacturers' manual cleaning protocol a recommended number of times. Any degradation noted on the device is observed. This test is also sometimes referred to as Reusability Testing or Limits of Reuse. Cleaning Feasibility Testing is also performed under this code.

Biological Indicator Testing – ISO 11138/USP

Test Code	Test Name	Test Description
BI-DV-STEAM	STEAM D-Value Analysis	D-Value determines the resistance of a biological indicator in a resistometer. D-values are the time required to achieve inactivation of 90% of a population of the test microorganism under exposure conditions. This test is typically performed to verify the resistance values as listed on the biological indicator certification. Test typically follow the procedures as recommended by the biological indicator manufacturer.
BI-DV-DRY	Dry Heat D-Value Analysis	
BI-DV-ETO	EO D-Value Analysis	

BI-SK	Survival/Kill	A Survival/Kill test determines the resistance of a Biological Indicator. It requires fewer BIs than a D-Value and determines the processing time to totally kill the organisms on a BI and the time where all organisms on a BI survive. This test is typically performed to verify the resistance values as listed on the biological indicator certification.
BI-ASSAY	BI Population Verification	A determination of the population on a lot of biological indicators. Also known as a population assay. The samples are typically heat shocked to ensure that only the spore forming bacteria are being counted and activating the spore forming cells to germinate. Test typically follow the procedures as recommended by the biological indicator manufacturer.
BI-PURITY	Product Purity Test	An assay is done on a biological indicator to test the population of non-indicator organisms on the BI.

Biocompatibility

Test Code	Test Name	Test Description
CTT-001	Count Sheet/MEM Elution	A test that determines the toxicity of printer ink and paper that a hospital central service department uses for count sheets in processed sterilization loads.
BIO-CYTO	Cytotoxicity - MEM Elution	A cytotoxicity test is performed by extracting the tested device in Minimal Essential Media (MEM), and then the media is plated over a field of cells. Cytotoxicity is an "in vitro" test which is determined by how the cells are affected by the MEM and whether any cell Lysis occurs. MEM test are very sensitive and most failures occur in cytotoxicity testing, as compared to other biocompatibility test. Cytotoxicity tests can be done at any time during the device design process as the raw materials for the device can be used.
BIO-SENS	Sensitization	Sensitization tests use animal models to determine if repeated exposure to a device will cause a reaction. The animal's immune system is monitored as it is exposed and re-exposed to a device extraction. A water based and oil-based extraction is created to test both polar and non-polar leachables from the device. A sensitization test takes the longest time period for results of the various biocompatibility tests and should be done on a final product once the cytotoxicity is finished.
BIO-IRRI	Irritation	Irritation testing is similar to sensitization testing, except irritation testing tests whether an immediate reaction is created by a device. The test determines if toxic levels of chemicals are leaching from plastics.

Miscellaneous

Test Code	Test Name	Test Description
CONSULT	Consulting	Consulting services provided by HIGHPOWER Labs
TRAIN	Training	Training provided at a customer site or at HIGHPOWER Labs
FEASA	Feasibility Testing	Feasibility testing or a miscellaneous test not already identified by another code

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