



Food and Drug Administration  
10903 New Hampshire Avenue  
Document Control Center – WO66-G609  
Silver Spring, MD 20993-0002

February 9, 2018

STERIS Corporation  
Ms. Jennifer Nalepka  
Senior Regulatory Affairs Specialist  
5960 Heisley Rd.  
Mentor, Ohio 44060

Re: K172748

Trade/Device Name: VERIFY® V24 Self-Contained Biological Indicator  
VERIFY® V24 Challenge Pack

Regulation Number: 21 CFR 880.2800

Regulation Name: Indicator, Biological Sterilization Process

Regulatory Class: Class II

Product Code: FRC

Dated: January 09, 2018

Received: January 10, 2018

Dear Ms. Jennifer Nalepka :

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical

device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

<http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely,

**Michael J. Ryan -S**

for Tina Kiang, Ph.D.

Acting Director

Division of Anesthesiology, General Hospital,

Respiratory, Infection Control and Dental Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known)  
K172748

Device Name  
VERIFY V24 Self-Contained Biological Indicator

### Indications for Use (Describe)

The VERIFY® V24 Self-Contained Biological Indicator is intended for routine monitoring of the following sterilizers and cycles:

- Non Lumen, Flexible, Lumen and Fast Non Lumen Cycles of the V-PRO 1, 1 Plus, maX, 60 and maX 2 Sterilizers
- Standard Cycle of the STERRAD® 100S Sterilizer
- Standard and Advanced Cycles of the STERRAD® NX Sterilizer
- Express, Flex Scope and Standard Cycles of the STERRAD® 100 NX Sterilizer

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

### CONTINUE ON A SEPARATE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

**\*DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.\***

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

Department of Health and Human Services  
Food and Drug Administration  
Office of Chief Information Officer  
Paperwork Reduction Act (PRA) Staff  
[PRASStaff@fda.hhs.gov](mailto:PRASStaff@fda.hhs.gov)

*"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."*

## Indications for Use

510(k) Number (if known)

K172748

Device Name

VERIFY V24 Challenge Pack

### Indications for Use (Describe)

The VERIFY V24 Challenge Pack is intended for qualification testing of the V-PRO 1, V-PRO 1 Plus, V-PRO maX, V-PRO maX 2 and V-PRO 60 Low Temperature Sterilization Systems following installation, relocation, malfunctions or major repairs.

The VERIFY V24 Challenge Pack is placed in an otherwise empty sterilizer chamber; a hospital-defined challenge load is not included.

The VERIFY V24 Challenge Pack is not intended for routine monitoring of V-PRO Sterilizers. It has been tested and validated solely for use in periodic testing the Sterilizers.

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

### CONTINUE ON A SEPARATE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

**\*DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.\***

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

Department of Health and Human Services  
Food and Drug Administration  
Office of Chief Information Officer  
Paperwork Reduction Act (PRA) Staff  
[PRASStaff@fda.hhs.gov](mailto:PRASStaff@fda.hhs.gov)

*"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."*

STERIS®



**510(k) Summary  
For  
VERIFY® V24 Self-Contained Biological Indicator**

**Sponsor Facility**

STERIS Corporation  
5960 Heisley Road  
Mentor, OH 44060  
Phone: (440) 354-2600  
Fax No: (440) 357-9198

**Manufacturing Facility**

STERIS Corporation  
9325 Pinecone Drive  
Mentor, OH 44060  
Phone: (440) 392-7800  
Fax No: (440) 392-7896

Contact: Jennifer Nalepka  
Senior Regulatory Affairs Specialist

Telephone: (440) 392-7458  
Fax No: (440) 357-9198  
e-mail: [jennifer\\_nalepka@steris.com](mailto:jennifer_nalepka@steris.com)

Submission Date: January 9, 2018

Premarket Notification Number: K172748

**STERIS TRADITIONAL 510(k) PREMARKET NOTIFICATION  
VERIFY® V24 Self-Contained Biological Indicator and VERIFY® V24 Challenge  
Pack**

---

**1. Device Name**

Trade Name:                    VERIFY® V24 Self-Contained Biological Indicator

Common/usual Name:        Biological Indicator (BI, SCBI)

Device Classification:        Class II

Classification Name:         Indicator, Biological Sterilization Process  
                                      (21 CFR 880.2800, FRC)

**2. Predicate Device**

VERIFY® V24 Self-Contained Biological Indicator, K140499

**3. Description of Device**

The VERIFY V24 Self-Contained Biological Indicator (SCBI) is used by healthcare facilities to monitor the V-PRO® Low Temperature Sterilization Systems. It is designed to accompany medical devices placed in the sterilizer.

The user places the VERIFY V24 Self-Contained Biological Indicator into the V-PRO Low Temperature Sterilization System and performs a sterilization cycle. After cycle completion, the VERIFY V24 Self-Contained Biological Indicator can either be immediately activated or it can be held at room temperature for a maximum of 72 hours (3 days) prior to activation.

The VERIFY V24 Self-Contained Biological Indicator is activated by sealing the vial and rupturing the medium ampoule using the STERIS VERIFY SCBI HP activator. The activator automatically seals the VERIFY V24 Self-Contained Biological Indicator vial and releases the growth media.

The activated SCBI is incubated at 55-60°C for  $\geq 24$  hours. The VERIFY V24 Self-Contained Biological Indicator indicates a pass if the media remains orange and non-turbid. The VERIFY V24 Self-Contained Biological Indicator indicates a failure of sterilization if the media changes from orange to yellow and/or if the media is turbid.

**STERIS TRADITIONAL 510(k) PREMARKET NOTIFICATION  
 VERIFY® V24 Self-Contained Biological Indicator and VERIFY® V24 Challenge  
 Pack**

**4. Intended Use/ Indications for Use**

The VERIFY® V24 Self-Contained Biological Indicator is intended for routine monitoring of the following sterilizers and cycles:

- Non Lumen, Flexible, Lumen and Fast Non Lumen of the V-PRO 1, 1 Plus, maX, 60 and maX 2 Sterilizers
- Standard Cycle of the STERRAD® 100S Sterilizer
- Standard and Advanced Cycles of the STERRAD® NX Sterilizer
- Express, Flex Scope and Standard Cycles of the STERRAD® 100 NX Sterilizer

**5. Summary of Technical Characteristics**

A comparison of technical characteristics versus the predicate is summarized in **Table 5-1**.

**Table 5-1.** VERIFY V24 Self-Contained Biological Indicator Physical Description and Technological Properties vs the Predicate Device

Feature	VERIFY V24 Self-Contained Biological Indicator (Proposed, K172748)	VERIFY V24 Self-Contained Biological Indicator (Predicate, K140499)	Comparison
Intended Use	<p>The VERIFY V24 Self-Contained Biological Indicator is intended for routine monitoring of the following sterilizers and cycles:</p> <ul style="list-style-type: none"> <li>• Non Lumen, Flexible, Lumen and Fast Non Lumen Cycles of the V-PRO 1, 1 Plus, maX, 60 and maX 2 Sterilizers</li> <li>• Standard Cycle of the STERRAD 100S Sterilizer</li> <li>• Standard and Advanced Cycles of the STERRAD NX Sterilizer</li> <li>• Express, Flex Scope and Standard Cycles of the STERRAD 100 NX Sterilizer</li> </ul>	<p>The VERIFY V24 Self-Contained Biological Indicator is intended for routine monitoring of the following sterilizers and cycles:</p> <ul style="list-style-type: none"> <li>• Lumen, Non Lumen and Flexible Cycles of the V-PRO 1, 1 Plus, maX and 60 Sterilizers</li> <li>• Standard Cycle of the STERRAD 100S Sterilizer</li> <li>• Standard and Advanced Cycles of the STERRAD NX Sterilizer</li> <li>• Express, Flex Scope and Standard Cycles of the STERRAD 100 NX Sterilizer.</li> </ul>	<p>The proposed and predicate devices are identical. The Fast Non Lumen Cycle is a new cycle in the V-PRO maX 2 Low Temperature Sterilizer, which has been submitted in a separate premarket notification.</p>
Indicator organism	<i>Geobacillus stearothermophilus</i>	<i>Geobacillus stearothermophilus</i>	Same
Mechanism of action	Visual detection of growth based on media color change in the presence of	Visual detection of growth based on media color change in the presence of	Same. Resistance testing and simulated use testing demonstrate appropriate

**STERIS TRADITIONAL 510(k) PREMARKET NOTIFICATION  
 VERIFY® V24 Self-Contained Biological Indicator and VERIFY® V24 Challenge  
 Pack**

Feature	VERIFY V24 Self-Contained Biological Indicator (Proposed, K172748)	VERIFY V24 Self-Contained Biological Indicator (Predicate, K140499)	Comparison
	surviving indicator organisms.	surviving indicator organisms.	monitoring of indicated sterilization cycles.
Accessories	VERIFY Incubator and VERIFY SCBI HP Activator (optional)	VERIFY Incubator and VERIFY SCBI HP Activator (optional)	Same
Viable spore population	2.0 – 3.4 x 10 <sup>6</sup> spore/BI	2.0 – 3.4 x 10 <sup>6</sup> spore/BI	Same. Both contain greater than 10 <sup>6</sup> spores/BI.
Resistance characteristics	Resistance @ 2.7 mg/L H <sub>2</sub> O <sub>2</sub> : <ul style="list-style-type: none"> <li>• <u>D-value</u> 4.0 – 8.0 sec</li> <li>• <u>Survival Time</u> 4 - 30 sec</li> <li>• <u>Kill Time</u> ≤ 16 min</li> </ul>	Resistance @ 2.7 mg/L H <sub>2</sub> O <sub>2</sub> : <ul style="list-style-type: none"> <li>• <u>D-value</u> 4.0 – 8.0 sec</li> <li>• <u>Survival Time</u> 4 - 30 sec</li> <li>• <u>Kill Time</u> ≤ 16 min</li> </ul>	Same. Simulated use testing verifies suitability for use in claimed cycles.
Culture Conditions	55- 60°C, media included in the VERIFY V24 Self-Contained Biological Indicator, 24 hour incubation time.	55- 60°C, media included in the VERIFY V24 Self-Contained Biological Indicator, 24 hour incubation time.	Same. RIT Testing and ISO 11138-1 media testing verifies performance
Primary Packaging	Direct inoculum on plastic vial, glass ampoule with recovery media.	Direct inoculum on plastic vial, glass ampoule with recovery media.	Same
Process indicator	VERIFY V-PRO Chemical Indicator (K140515); magenta to yellow color change.	VERIFY V-PRO Chemical Indicator (K140515); magenta to yellow color change.	Same
Shelf-life	9 months: An 18-month shelf life is established for the SCBI however the throughput process indicator (K140515) has a shelf life of 9 months so the maximum labeled shelf life for the SCBI is 9 months	9 months: An 18-month shelf life is established for the SCBI however the throughput process indicator (K140515) has a shelf life of 9 months so the maximum labeled shelf life for the SCBI is 9 months	Same

**6. Summary of Nonclinical Tests**

Performance testing to demonstrate substantial equivalence to the predicate has been completed and is summarized in **Table 5-2** below.

**Table 5-2.** Summary of Non-clinical Testing

Test	Acceptance Criteria	Conclusion
¼, ½ & ¾ Cycle Performance	The performance of the the VERIFY V24 Self-Contained Biological Indicator in ¼, ½ or ¾ cycles was evaluated. Partial positive results were obtained in the ¼ and ½ cycles and all negative results were obtained in the ¾ cycle evaluations.	PASS
Growth Inhibition	Uninoculated VERIFY V24 Self-Contained Biological Indicators were processed in a Fast Non Lumen Cycle	PASS



**STERIS TRADITIONAL 510(k) PREMARKET NOTIFICATION  
 VERIFY® V24 Self-Contained Biological Indicator and VERIFY® V24 Challenge  
 Pack**

Test	Acceptance Criteria	Conclusion
	and inoculated with low numbers (<100 CFU) of <i>Geobacillus stearothermophilus</i> . All tested the VERIFY V24 Self-Contained Biological Indicators exhibited growth.	
Simulated Use	VERIFY V24 Self-Contained Biological Indicators were processed in the Fast Non Lumen Cycle under simulated use conditions with the following results: <ul style="list-style-type: none"> <li>• All processed SCBIs exhibit negative growth results</li> <li>• All processed SCBI Label PIs exhibit a “pass” result</li> <li>• All processed CIs exhibit a “pass” result</li> </ul>	PASS

**Table 5-3.** Summary of Testing Previously Submitted for VERIFY V24 Self-Contained Biological Indicator (K140499)

Test	Acceptance Criteria	Conclusion
Reduced Incubation Time (RIT) Testing	RIT testing performed per the FDA guidance on BI submissions is done to obtain 30 – 80% survival of exposed BI with a $\geq 97\%$ correspondence between the 24-hour results and the conventional incubation time of 7 days.	PASS
Viable spore population	The viable spore population found in the VERIFY V24 Self-Contained Biological indicator must fall between $2.0 - 3.4 \times 10^6$ spore/SCBI	PASS
D-value	D-value testing was performed per the FDA guidance on BI submissions. For the VERIFY V24 Self-Contained Biological Indicator, the D-value must be 4-8 seconds.	PASS
Survival Time	Survival time testing was performed per the FDA guidance on BI submissions. For the VERIFY V24 Self-Contained Biological Indicator, the survival time must be 4-30 seconds.	PASS
Kill Time	Kill time testing was performed per the FDA guidance on BI submissions. For the VERIFY V24 Self-Contained Biological Indicator, the kill time must be $\leq 16$ min.	PASS
Hold Time	The performance of VERIFY V24 Self-Contained Biological Indicators held for 72 hours after exposure to VHP was evaluated.	PASS

**7. Conclusion**

Based on the intended use, technological characteristics and nonclinical performance data, the subject device is as safe, as effective and performs at least as well as the legally marketed predicate device, VERIFY V24 Self-Contained Biological Indicator (cleared in K140499), Class II (21 CFR 880.2800) product code FRC.

STERIS®



**510(k) Summary  
For  
VERIFY® V24 Challenge Pack**

**Sponsor Facility**

STERIS Corporation  
5960 Heisley Road  
Mentor, OH 44060  
Phone: (440) 354-2600  
Fax No: (440) 357-9198

**Manufacturing Facility**

STERIS Corporation  
9325 Pinecone Drive  
Mentor, OH 44060  
Phone: (440) 392-7800  
Fax No: (440) 392-7896

Contact: Jennifer Nalepka  
Senior Regulatory Affairs Specialist

Telephone: (440) 392-7458  
Fax No: (440) 357-9198  
e-mail: [jennifer\\_nalepka@steris.com](mailto:jennifer_nalepka@steris.com)

Submission Date: January 8, 2018

Premarket Notification Number: K172748

**STERIS TRADITIONAL 510(k) PREMARKET NOTIFICATION  
VERIFY® V24 Self-Contained Biological Indicator and VERIFY® V24 Challenge  
Pack**

---

**8. Device Name**

Trade Name: VERIFY® V24 Challenge Pack

Common/usual Name: Biological Indicator (BI) Process Challenge Device

Device Classification: Class II

Classification Name: Indicator, Biological Sterilization Process  
(21 CFR 880.2800, FRC)

**9. Predicate Device**

VERIFY® V24 Challenge Pack, K140499

**10. Description of Device**

The VERIFY V24 Challenge Pack is used by healthcare facilities for qualification testing of the V-PRO Low Temperature Sterilization Systems following installation, relocations, malfunctions or major repairs. The challenge pack is placed in an otherwise empty sterilizer chamber; a hospital defined challenge load is not included.

The user places the VERIFY V24 Challenge Pack into the V-PRO Low Temperature Sterilization System and performs a sterilization cycle. After cycle completion, the VERIFY HPU Chemical Indicator (CI) and the VERIFY V24 Self-Contained Biological Indicator (SCBI) contained in the challenge pack are retrieved. The CI is assessed for a passing color change immediately and the SCBI can either be immediately activated or it can be held at room temperature for a maximum of 72 hours (3 days) prior to activation.

The SCBI is activated by sealing the vial and rupturing the medium ampoule using the STERIS VERIFY SCBI HP activator. The activator automatically seals the SCBI vial and releases the growth media.

The activated SCBI is incubated at 55-60°C for  $\geq 24$  hours. The SCBI indicates a pass if the media remains orange and non-turbid. The SCBI indicates a failure of sterilization if the media changes from orange to yellow and/or if the media is turbid.

**11. Intended Use/ Indications for Use**

**STERIS TRADITIONAL 510(k) PREMARKET NOTIFICATION  
 VERIFY® V24 Self-Contained Biological Indicator and VERIFY® V24 Challenge  
 Pack**

The VERIFY V24 Challenge Pack is intended for qualification testing of the V-PRO 1, V-PRO 1 Plus, V-PRO maX, V-PRO maX 2 and V-PRO 60 Low Temperature Sterilization Systems following installation, relocation, malfunctions or major repairs.

The VERIFY V24 Challenge Pack is placed in an otherwise empty sterilizer chamber; a hospital-defined challenge load is not included.

The VERIFY V24 Challenge Pack is **not** intended for routine monitoring of V-PRO Sterilizers. It has been tested and validated solely for use in Sterilizer qualification.

**12. Summary of Technical Characteristics**

A comparison of technical characteristics versus the predicate is summarized in **Table 5-1**.

**Table 5-1.** VERIFY V24 Challenge Pack Physical Description and Technological Properties vs the Predicate Device

Feature	VERIFY V24 Challenge Pack (proposed K172748)	VERIFY V24 Challenge Pack Predicate (K140499)	Comparison
Intended Use	<p>The VERIFY V24 Challenge Pack is used for qualification testing of the Non Lumen, Flexible, Lumen and Fast Non Lumen cycles of the V-PRO Low Temperature Sterilization Systems following installation, relocation, malfunctions or major repairs in healthcare facilities.</p> <p>The VERIFY V24 Challenge Pack is placed in an otherwise empty sterilizer chamber; a hospital-defined challenge load is not included.</p> <p>The VERIFY V24 Challenge Pack is <b>not</b> intended for routine monitoring of V-PRO Sterilizers. It has been tested and validated solely for use in Sterilizer qualification testing.</p>	<p>The VERIFY® V24 Challenge Pack is intended for qualification testing of the Lumen, Non Lumen and Flexible cycles of V-PRO® Low Temperature Sterilization Systems following installation, relocation, malfunctions or major repairs.</p> <p>The challenge pack is placed in an otherwise empty sterilizer chamber; a hospital-defined challenge load is not included.</p> <p>The challenge pack is <b>not</b> intended for routine monitoring of V-PRO Sterilizers. It has been tested and validated solely for use in Sterilizer qualification testing.</p>	<p>The proposed and predicate devices are identical. The Fast Non Lumen Cycle is a new cycle in the V-PRO maX 2 Low Temperature Sterilizer, which has been submitted in a separate premarket notification.</p>

**STERIS TRADITIONAL 510(k) PREMARKET NOTIFICATION  
 VERIFY® V24 Self-Contained Biological Indicator and VERIFY® V24 Challenge  
 Pack**

Feature	VERIFY V24 Challenge Pack (proposed K172748)	VERIFY V24 Challenge Pack Predicate (K140499)	Comparison
Biological Indicator	VERIFY V24 Self-Contained Biological Indicator (subject of this submission)	VERIFY V24 Self-Contained Biological Indicator	Same
Class 1 Chemical Indicator	The VERIFY HPU Chemical Indicator (subject of a separate Premarket Notification) is placed inside the pouch.  A throughput process indicator is also located on the VERIFY V24 SCBI label.	The VERIFY HPU Chemical Indicator is placed inside the pouch.  A throughput process indicator is also located on the VERIFY V24 SCBI label.	Same
Means to distinguish processed from unprocessed	Chemical indicator of proposed device visible through the pack.	Chemical indicator of proposed device visible through the pack.	Same

**13. Summary of Nonclinical Tests**

Performance testing to demonstrate substantial equivalence to the predicate has been completed and is summarized in **Table 5-2** below.

**Table 5-2.** Summary of Non-clinical Testing

Test	Acceptance Criteria	Conclusion
Comparative Dose Response to Biological Model	The VERIFY V24 Challenge Pack was compared to the worst case biological model in the Fast Non Lumen Cycle. The challenge pack shall demonstrate equal or greater resistance as compared to the worst case biological model.	PASS
Simulated Use	VERIFY V24 Challenge Pack were processed in the Fast Non Lumen Cycle under simulated use conditions with the following results: <ul style="list-style-type: none"> <li>• All processed SCBIs exhibit negative growth results</li> <li>• All processed SCBI Label PIs exhibit a “pass” result</li> <li>• All processed CIs exhibit a “pass” result</li> </ul>	PASS

**14. Conclusion**

Based on the intended use, technological characteristics and nonclinical performance data, the subject device is as safe, as effective and performs at least as well as the legally marketed predicate device, VERIFY V24 Challenge Pack (cleared in K140499), Class II (21 CFR 880.2800), product code FRC.