

# Streamlining Conformity Assessment with FDA's ASCA Program

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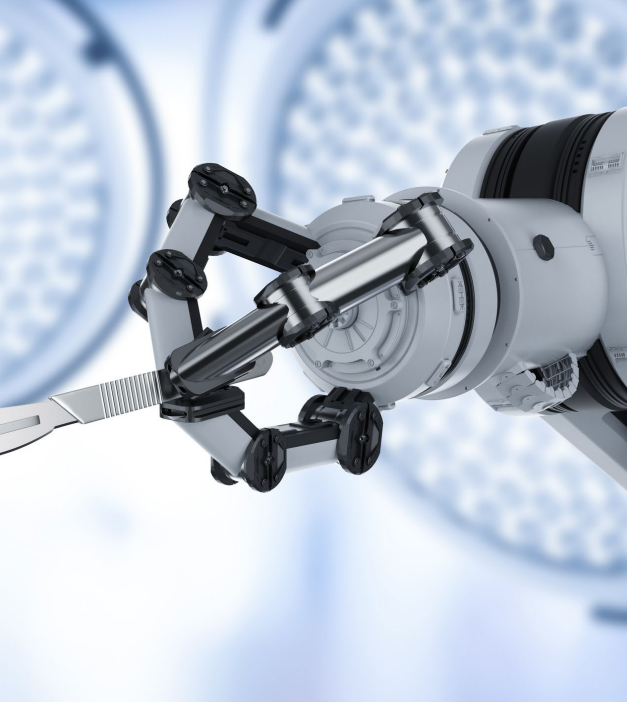
**U.S. FOOD & DRUG**  
ADMINISTRATION

**Center for Devices and Radiological Health**  
**Division of Standards and Conformity Assessment**



# Topics

- The Accreditation Scheme for Conformity Assessment (ASCA)
- Benefits of participating in ASCA
- Real-world examples of ASCA testing
- Citing ASCA testing in device submissions
- Question and answer session



# **THE ACCREDITATION SCHEME FOR CONFORMITY ASSESSMENT (ASCA)**

# What is ASCA?

- Capitalizes on FDA-recognized voluntary consensus standards in device development and review
- ‘Puts standards to work’ in conformity assessment
- *ASCA Accreditation* from FDA to qualified test labs means:
  - Confidence in their methods and results
  - No need for complete test report review

ISO/IEC 17011:2017

Conformity assessment — Requirements for accreditation bodies accrediting conformity assessment bodies



← Popular standards

ISO/IEC 17025

Testing and calibration laboratories

# ASCA Standards: Biocompatibility

- Majority of medical devices need biocompatibility assessment
- ASCA includes the nine most common biocompatibility test methods
- Nine ASCA Summary Test Report templates are available

FDA Recognized Consensus Standard	Test Method(s)
ISO 10993-4	Complement Activation using a U.S. marketed ELISA kit
ISO 10993-4 and ASTM F756	Direct and Indirect Hemolysis
ISO 10993-5	MEM Elution Cytotoxicity
ISO 10993-23*	In Vivo Dermal Irritation, Intracutaneous Reactivity Irritation
ISO 10993-10*	Closed Patch Sensitization
ISO 10993-10* and ASTM F720	Guinea Pig Maximization Sensitization
ISO 10993-11	Acute Systemic Toxicity
ISO 10993-11 and USP 151	Material-Mediated Pyrogenicity
ISO 10993-12	Sample preparation for all test types

*\*ISO 10993-10:2010 split into ISO 10993-10:2021 and ISO 10993-23:2021.*

*\*ISO 10993-10:2010, ISO 10993-10:2021, and ISO 10993-23:2021 are all included in ASCA.*

# ASCA Standards:

## Basic Safety and Essential Performance

- 82 standards
- Broad utilization across all medical electrical devices
- One ASCA Summary Test Report template

Standard	Standard Title
IEC 60601-1	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance (along with the FDA-recognized collateral and particular standards in the IEC/ISO 60601-80601 series)
IEC 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements (along with the FDA-recognized particular standards in the IEC 61010 series)



# **BENEFITS OF PARTICIPATING IN ASCA**

# ASCA Goal: Streamline Conformity Assessment in Pre-market Review

## Benefits of ASCA:

- Removes the guesswork about supporting documentation needs
- Provides templates for the only documentation needed:
  - ASCA Declaration of Conformity
  - ASCA Summary Test Report

<p>ASCA Test Method: Cytotoxicity – MEM Elution (ISO 10993-5)</p> <p><b>Administrative Information</b></p> <ol style="list-style-type: none"><li>1. Testing Laboratory Name: <b>Test Lab ABC</b></li><li>2. ASCA Testing Laboratory Identification Number: <b>TL-999</b></li><li>3. Testing Location(s): <b>123 Main St, XXX, Virginia</b></li><li>4. Testing Date(s): <b>February 1<sup>st</sup>, 2022—February 28, 2022</b></li><li>5. ASCA Accreditation Status on the Date(s) of Testing: <input checked="" type="checkbox"/> Standard (and particular test method) was in testing laboratory's <input checked="" type="checkbox"/> ASCA Accreditation was not suspended</li></ol> <p>ASCA Test Article Prep SOP#: <b>SOP-SamplePrep-123-Rev2.0, SOP-Sam</b></p> <p><input checked="" type="checkbox"/> Test Article was prepared per the above protocol (no deviations/amendments) <input type="checkbox"/> Test Article was prepared per the above protocol, with the following deviations (filtering, extract manipulation, pH adjustment):</p> <p>Description of deviations/amendments</p> <p><b>Test Article:</b></p> <p><input checked="" type="checkbox"/> Entire final finished device <input type="checkbox"/> Representative sample selection per SOP <input type="checkbox"/> Other:<sup>2</sup> [DESCRIBE]</p> <p><b>Extraction Solvent:</b></p> <p><input checked="" type="checkbox"/> MEM with 5-10% animal serum <input type="checkbox"/> Other:<sup>3</sup> [DESCRIBE]</p> <p><b>Extraction Ratio:</b></p> <p><input checked="" type="checkbox"/> 6cm<sup>2</sup>/ml (&lt;0.5mm thick) <input type="checkbox"/> 3cm<sup>2</sup>/ml (0.5-1.0mm thick or molded items &gt; 1.0mm) <input type="checkbox"/> 1.25cm<sup>2</sup>/ml (elastomers &gt; 1.0mm thick) <input type="checkbox"/> Other:<sup>4</sup> [DESCRIBE]</p> <p><b>Extraction Conditions:</b></p> <p><input type="checkbox"/> 37°C, 24 h <input checked="" type="checkbox"/> 37°C, 72 h <input type="checkbox"/> 50°C, 72 h <input type="checkbox"/> 70°C, 24 h <input type="checkbox"/> 121°C, 1 h <input type="checkbox"/> Other:<sup>5</sup> [DESCRIBE]</p>	<p><b>Appendix A: Example ASCA Declaration of Conformity (DOC) for Basic Safety and Essential Performance Standards in the ASCA Pilot</b></p> <p><i>Note: This example is intended to illustrate elements of the Declaration of Conformity per FDA's guidance <a href="#">Appropriate Use of Voluntary Consensus Standards in Premarket Submissions for Medical Devices that the device manufacturer submits as part of their premarket submission</a>.</i></p> <p><b>Responsible Party</b> Name of entity responsible for DOC: _____ Address of entity responsible for DOC: _____</p> <p><b>Product/Device Identification</b></p> <p>All identifying information for the product/device including (e.g., product code(s), device marketing name(s), model number(s), etc.).</p> <p><b>Statement of Conformity</b> <input type="checkbox"/> The test results demonstrate that the device is in conformity with the standard(s) listed below<sup>13</sup>:</p> <ul style="list-style-type: none"><li>• Title of Standard: (e.g., <i>ANSI/AAMI ES60601-1 Medical electrical equipment - Part 1: General requirements for basic safety and essential performance.</i>)</li><li>• FDA Recognition #: (e.g., <i>19-4</i>)</li><li>• Options Selected <input type="checkbox"/> Standard included no options <input type="checkbox"/> Standard included options</li></ul> <p>List of options selected in standard (e.g., clause 5.3 permits modified test conditions if ambient temperature cannot be maintained). No information is needed in this section if testing is from an ASCA-accredited test lab; instead, this section may reference the ASCA summary test report provided as supplementary documentation.</p> <ul style="list-style-type: none"><li>• Testing Laboratory Name: (e.g., <i>Testing Laboratory ABC</i>)</li><li>• ASCA Testing Laboratory Identification Number (as applicable): (e.g., <i>ASCA001</i>)</li><li>• Testing Location(s): (e.g., <i>1234 Example Road, Silver Spring, MD 20993</i>)</li><li>• Testing Date(s): (e.g., <i>Sep 1, 2020 – Sep 15, 2020</i>)</li><li>• ASCA Accreditation Status on the Date(s) of Testing: <input type="checkbox"/> Standard was not in testing laboratory's scope of ASCA Accreditation <input type="checkbox"/> Standard was in testing laboratory's scope of ASCA Accreditation;</li></ul>
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## ***ASCA Benefits, continued***

- Reduces time needed for the conformity assessment element of device review
- Less need for Additional Information questions, lengthy internal consults and complete test report review
- Improves the quality of testing and reporting
  - Addresses testing issues for which FDA commonly identifies concerns

# IEC 60601-1-2 Review: ASCA vs. Non-ASCA

- IEC 60601-1-2: complete test reports include images of the test set-up
  - Poor or unclear test set-ups, could raise deficiencies (see example below):

*In your electromagnetic compatibility (EMC) report, you stated that the testing is done on the x, y, and z-axes. However, in your test setup, you have shown the horizontal plane is improperly oriented and has a coil size smaller than the full equipment under test (EUT). This standard is intended to demonstrate common and reproducible basis for evaluating the performance of your device applications when subjected to magnetic fields at power frequency. The processing unit of the device should be exposed during testing. We request that you clarify how the EUT was exposed to x, y, and z axes given the demonstrated test setup. If the processing system was not adequately exposed, we request that you perform new testing demonstrating the device is safe when subjected to magnetic fields at power frequency.*

- Using ASCA, we have confidence in ASCA-accredited labs' methods and results
  - No deficiencies would be identified for testing methodology/set-up

# **REAL-WORLD EXAMPLES OF ASCA TESTING**

# Real World Example: non-ASCA vs. ASCA Testing

Class II Device	Non-ASCA Testing (IEC 60601-1-2)	ASCA Testing (ANSI/AAMI ES60601-1)
Deficiencies	1 major 3 minor	0
Length of report	46 pages	9 pages

# Real World Example: non-ASCA vs. ASCA Testing

Class II Device	Non-ASCA Testing (60601-1 + 60601-2-2)	ASCA Testing (60601-1 + 60601-2-2)
Deficiencies	1 major	0
Length of report	203 pages	4 pages

# **ASCA Wound Therapy Device Submission: Basic Safety and Essential Performance Assessment**

- Negative Pressure Wound Therapy Powered Suction Pump
  - device that promotes wound healing by the removal of excess exudates, infectious material, and tissue debris
- Basic Safety and Essential Performance ASCA testing:
  - IEC 60601-1
  - IEC 60601-1-2
  - IEC 60601-1-6
  - IEC 60601-1-8
  - IEC 60601-1-11



# ASCA Wound Therapy Device Submission: Basic Safety and Essential Performance Review



60601-1 and all collaterals	Complete Test Reports (provided alongside ASCA Summary Test Reports)	ASCA Testing: ASCA Summary Test Reports
Review staff		No need for consult
Page count	407 pages total	20 pages total
Estimate of review time	~ 10 hours	~ 1 hours
Deficiencies identified		0

# ASCA Lancet Submission: Biocompatibility Assessment

## Contact type

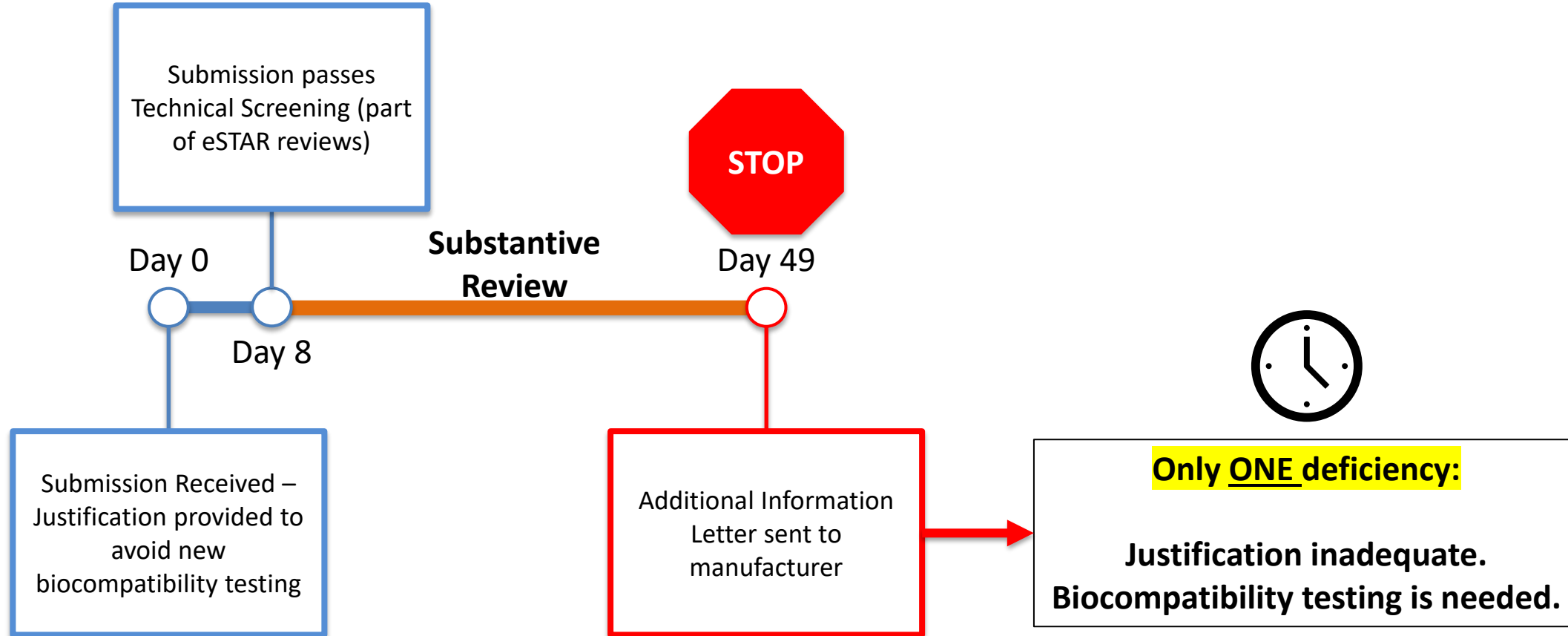
- Limited skin-contacting devices (<24 h)

## ASCA Biocompatibility Assessment

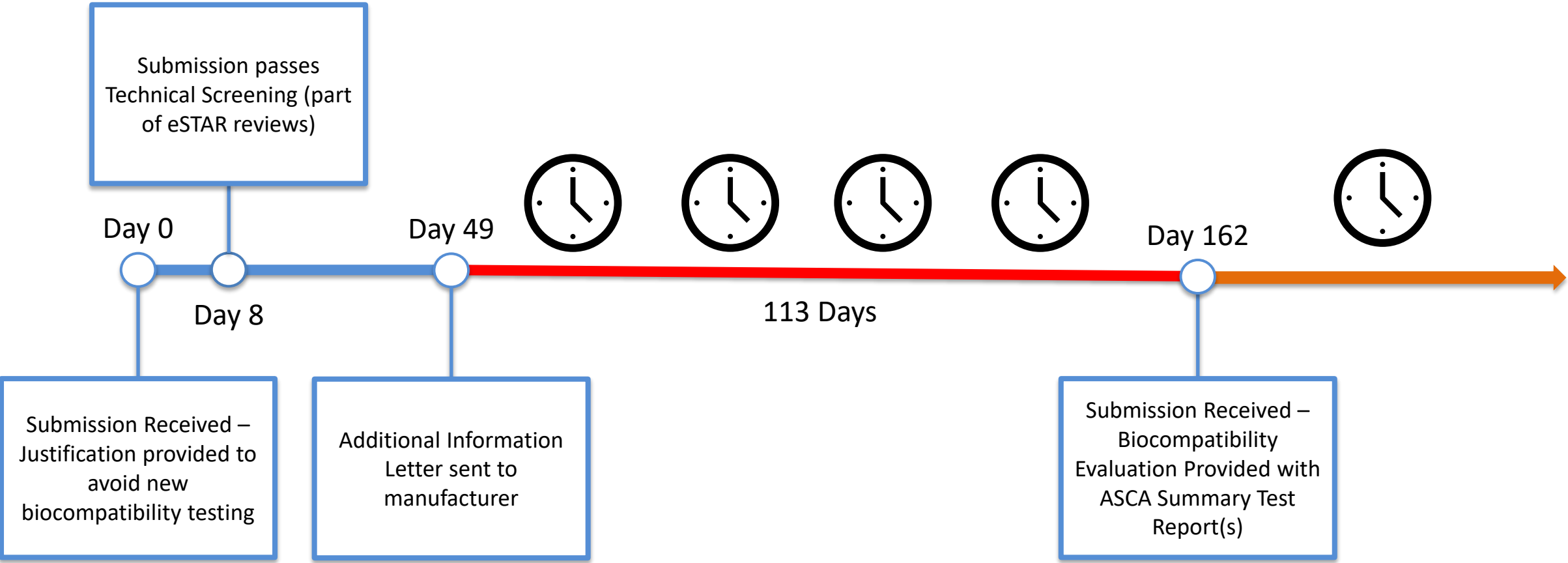
- Intracutaneous Reactivity Irritation
- Guinea Pig Maximization Sensitization
- MEM Elution Cytotoxicity



# ASCA Submission: Biocompatibility

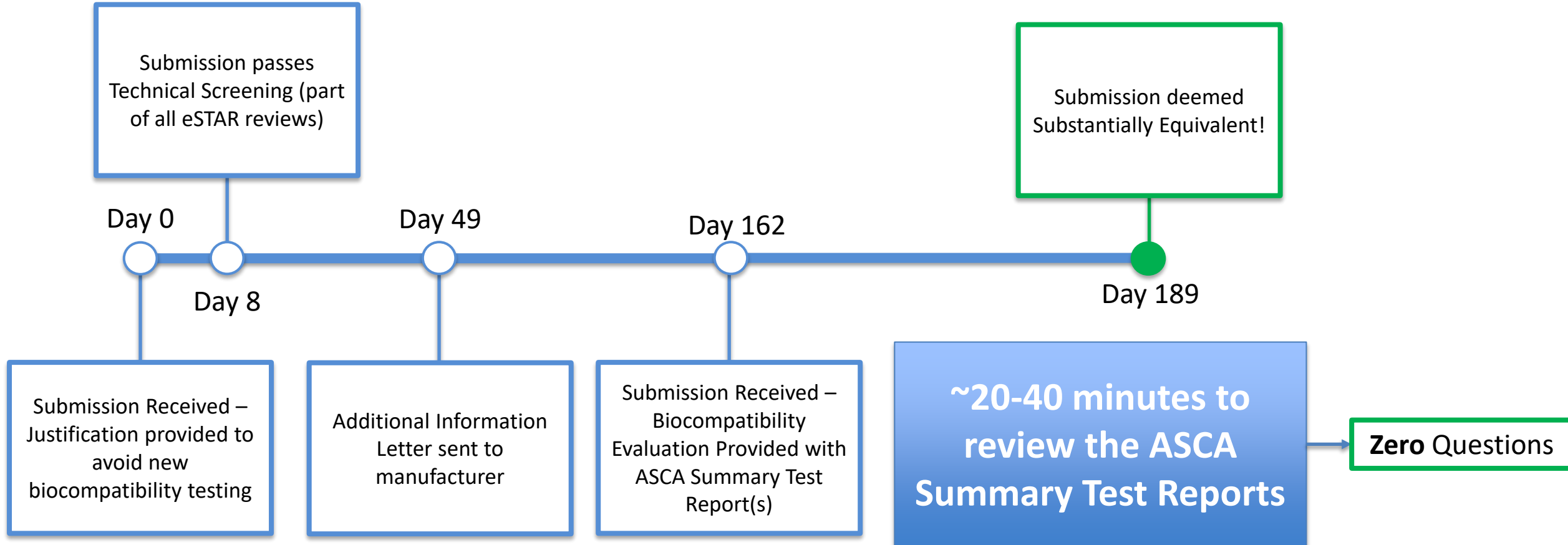


# ASCA Submission: Biocompatibility



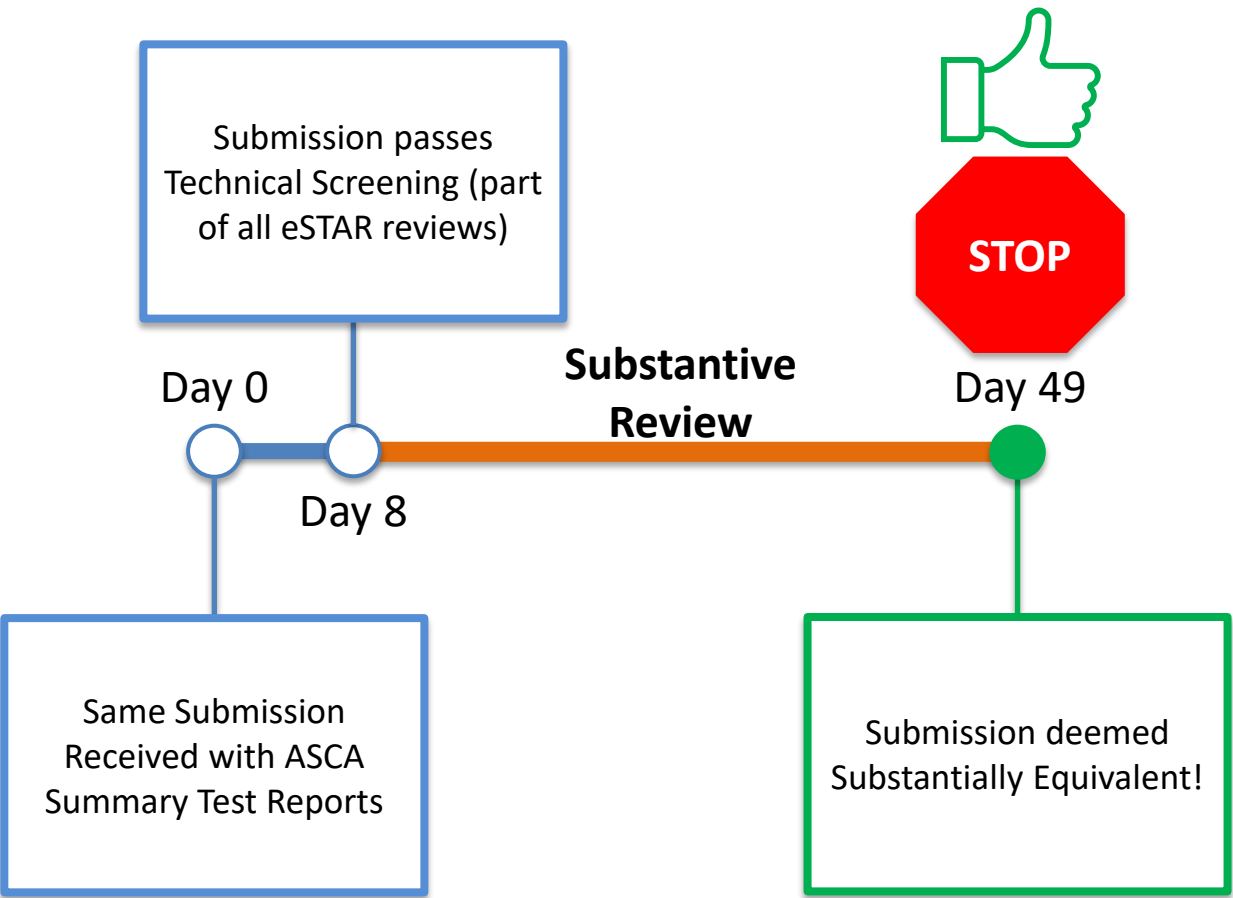
ASCA Test Method: Cytotoxicity – MEM Elution (ISO 10993-5)																							
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<input checked="" type="checkbox"/> The test article and extract DID NOT change color, and the extract DID NOT appear turbid or have particles. <input type="checkbox"/> There were changes in color/turbidity or particles in the test article and/or extract OR there was swelling/degradation of the test article. <sup>5</sup>																							
ASCA Test Method SOP #: <b>SOP-ASCA-MEM-789-Rev2.0</b>																							
<input checked="" type="checkbox"/> Test was conducted per the above protocol (no deviations/amendments) and 21 CFR 58; or <input type="checkbox"/> Test was conducted per the above protocol and 21 CFR 58, with the following deviations/amendments: <sup>6</sup>																							
<div>8 pages 20-40 minutes</div>																							
<table border="1"><thead><tr><th>Test Article</th><th>24 hr Results</th><th>72 hr Results</th><th>Conclusion</th></tr></thead><tbody><tr><td>Test Article 1</td><td>Grade 0/0/0</td><td>Grade 0/0/0</td><td>Performed as expected</td></tr><tr><td>Test Article 2</td><td>Grade 0/0/0</td><td>Grade 0/0/0</td><td>Performed as expected</td></tr><tr><td>Test Article 3</td><td>Grade 4/4/4</td><td>Grade 4/4/4</td><td>Performed as expected</td></tr><tr><td>Test Article Extract (100% neat)</td><td>Grade 0/0/0</td><td>Grade 0/0/0</td><td>Non-cytotoxic</td></tr></tbody></table>				Test Article	24 hr Results	72 hr Results	Conclusion	Test Article 1	Grade 0/0/0	Grade 0/0/0	Performed as expected	Test Article 2	Grade 0/0/0	Grade 0/0/0	Performed as expected	Test Article 3	Grade 4/4/4	Grade 4/4/4	Performed as expected	Test Article Extract (100% neat)	Grade 0/0/0	Grade 0/0/0	Non-cytotoxic
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Test Article 3	Grade 4/4/4	Grade 4/4/4	Performed as expected																				
Test Article Extract (100% neat)	Grade 0/0/0	Grade 0/0/0	Non-cytotoxic																				
I confirm that: <input checked="" type="checkbox"/> The above summary information includes all original and any retest data; and <input checked="" type="checkbox"/> I have checked that there are no differences between the complete test report and this ASCA summary test report.																							
John Standards Name: <u>[TYPED NAME POSITION]</u> 3/15/2022 Date																							

# ASCA Submission: Biocompatibility





# ASCA Submission: Biocompatibility



	Biocompatibility Justification at Day 0	Using ASCA Testing from Day 0
Deficiencies	1 major	0
FDA Days	76	~49 (or less)
Total Days after Day 0	189	~49 (or less)

# **CITING ASCA TESTING IN DEVICE SUBMISSIONS**

# ASCA Submission Elements

## Cover Letter

- States that submission has ASCA testing
- Name, location and IDs of test lab(s)
- FDA-recognized consensus standard(s) and test methods used

## ASCA Declaration of Conformity (DOC)

- Manufacturer provides the DOC
- *ASCA Accreditation* status for the test lab
- Please use example DOCs in ASCA guidances

## ASCA Summary Test Report

- See standards-specific ASCA guidance documents for examples

*Contains Nonbinding Recommendations*

## Electronic Submission Template for Medical Device 510(k) Submissions

### Guidance for Industry and Food and Drug Administration Staff

Document issued on September 22, 2022.

The draft of this document was issued on September 29, 2021.

For questions about this document regarding CDRH-regulated devices, contact ORP: Office of Regulatory Programs at 301-796-5640 or [eSubPilot@fda.hhs.gov](mailto:eSubPilot@fda.hhs.gov). For questions about this document regarding CBER-regulated devices, contact the Office of Communication, Outreach, and Development (OCOD) at 1-800-835-4709 or 240-402-8010, or by email at [ocod@fda.hhs.gov](mailto:ocod@fda.hhs.gov).



U.S. Department of Health and Human Services  
Food and Drug Administration  
Center for Devices and Radiological Health  
Center for Biologics Evaluation and Research

## What is eSTAR?

- A dynamic PDF submission template for medical device submissions
- Features automation, guides, integrated databases, policies and procedures
- Guides applicant step by step through the device submission process

## Two templates

- nIVD and IVD
- Available at: <https://www.fda.gov/medical-devices/premarket-notification-510k/voluntary-estar-program>

# Documenting Standards in eSTAR

Standards ?			
<div>Add Standard</div> <p>Please list the standards used in your submission (if any). If only certain sections were used, or there were deviations, cite these in an attachment. A recognition number is only applicable to certain regulators, see help text. Instead of typing in information, some regulators request standards information be attached.</p>			
ISO	10993-10 Fourth edition 2021-11	2-296	Delete Standard
Biological evaluation of medical devices - Part 10: Tests for skin sensitization			
Are you using this standard for general use, or are you declaring conformity to it?		Declaration of Conformity with ASCA	?
Add Standard			
		General Use Declaration of Conformity Declaration of Conformity with ASCA	

# Documenting Standards in eSTAR: DOC

Declaration of Conformity		
Application #	1200	
Company Name	Diamond Device Company	
Company Address	10 Main Street Technopolis VA 99999 United States	
Device Trade Name	Gemstone Device	
The subject device(s) is in conformity with the requirements of the following documents:		
Organization	Designation Number and Edition/Date	Recognition #
ISO	10993-10 Fourth edition 2021-11	2-296
Additional Information (e.g., limitations on the validity of the Declaration of Conformity)		
Signed for and on behalf of the applicant company:		
Place and Issuance Date:	Technopolis, VA, USA	February 1, 2024
Full Name and Title:	Mr. Regulatory Professional	
Signature	<i>Regulatory Professional</i>	





# Documenting ASCA Standards in eSTAR - Attachments



## EMC, Wireless, Electrical, Mechanical, and Thermal Safety ?

Based on the answers provided in the Device Description section, EMC and wireless technology information is needed.

### Electromagnetic Compatibility (EMC) ?

How many devices/accessories/components were subjected to EMC testing (maximum of 4)?  ?

### Wireless Technology ?

How many separate wireless functions are there (maximum of 5)?  ?

### Electrical, Mechanical, and Thermal (EMT) Safety Summary

Please summarize the Electrical, Mechanical and Thermal Safety Testing of your device, or summarize why testing was not needed. Please ensure any standards used here are also cited in the Standards subsection within the first part of this template (located after Applicant, Correspondent, and Pre-Submission Correspondence). Attach any supporting documentation for each standard used in your testing to the EMC, Wireless, & EMT Documentation section below. ?

### EMC, Wireless, & EMT Documentation

Add Attachment

Please attach the documentation pertaining to the Electromagnetic Compatibility Testing (e.g., EMC test reports/summaries), Safeguards, Wireless Testing, and Electrical, Mechanical and Thermal Testing of your device.

**\*\* Attach the ASCA Summary Test Reports to the relevant eSTAR sections \*\***

## Biocompatibility ?

Based on the answer provided in the Device Description section, biocompatibility information is needed.

### Tissue Contacting Products/Components/Materials ?

How many tissue contacting products/components/materials are there?  ?  
(See Help Text if multiple materials share the same justification for no testing.)

### Biocompatibility Reports and Documentation

Add Attachment

Please attach any documentation (e.g., test reports) pertaining to the biocompatibility of your device. If no test reports were attached, please attach a rationale explaining why testing is not necessary.

# ASCA By the Numbers

93

Standards included in ASCA

113

Submissions highlighting ASCA

107

ASCA-accredited testing  
laboratories

316

Standards tested in  
ASCA Summary Test Reports

97

Submissions with ASCA Summary  
Test Report

97%

ASCA submissions for which FDA  
requested no complete test reports

# Future

- ASCA is a permanent Program
- Draft Guidances out for comment
  - [Link to Docket](#)
- ASCA Expansion workshop held on April 17, 2024
  - [Link to Workshop](#)

# Future

- ASCA Workshop on Potential Inclusion of Chemical Characterization Biocompatibility Method
  - November 6, 2024
  - [Register here](#)





# FDA Industry Updates and Education

## 1. CDRH New

- Sign up at: <https://public.govdelivery.com/accounts/USFDA/subscribers/qualify>

## 2. CDRH Learn: Multi-Media Industry Education

- Videos, audio recordings, power point presentations, software-based “how to” modules
- [www.fda.gov/CDRHLearn](http://www.fda.gov/CDRHLearn)

## 3. Device Advice: Text-Based Education

- Comprehensive regulatory information on premarket and postmarket topics
- [www.fda.gov/DeviceAdvice](http://www.fda.gov/DeviceAdvice)

## 4. Division of Industry and Consumer Education (DICE)

- Email: [DICE@fda.hhs.gov](mailto:DICE@fda.hhs.gov)
- Phone: 1(800) 638-2041 or (301) 796-7100 (Hours: 9 am-12:30 pm; 1 pm-4:30pm EST)
- Web: [www.fda.gov/DICE](http://www.fda.gov/DICE)

## 5. eSTAR Program

- [https://www.fda.gov/medical-devices/how-study-and-market-your-device/voluntary-estar-program?utm\\_medium=email&utm\\_source=govdelivery](https://www.fda.gov/medical-devices/how-study-and-market-your-device/voluntary-estar-program?utm_medium=email&utm_source=govdelivery)
- eSTAR Assistance: [510K\\_Program@fda.hhs.gov](mailto:510K_Program@fda.hhs.gov)
- Tech Questions/Feedback: [eSubpilot@fda.hhs.gov](mailto:eSubpilot@fda.hhs.gov)

# FDA Standards Resources

- **Division of Standards and Conformity Assessment (DSCA)**  
[www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/standards-and-conformity-assessment-program#intro](http://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/standards-and-conformity-assessment-program#intro)
- **FDA Recognized Consensus Standards Database**  
[www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfStandards/search.cfm](http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfStandards/search.cfm)
- **Non-recognized Standards Database**  
[https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfStandards/nr\\_results.cfm](https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfStandards/nr_results.cfm)
- **Email us at: [CDRHStandardsStaff@fda.hhs.gov](mailto:CDRHStandardsStaff@fda.hhs.gov)**



# Relevant FDA Guidances

- **Recognition and Withdrawal of Voluntary Consensus Standards guidance**  
[www.fda.gov/regulatory-information/search-fda-guidance-documents/recognition-and-withdrawal-voluntary-consensus-standards](http://www.fda.gov/regulatory-information/search-fda-guidance-documents/recognition-and-withdrawal-voluntary-consensus-standards)
- **Appropriate Use of Voluntary Consensus Standards in Premarket Submissions for Medical Devices guidance**  
[www.fda.gov/regulatory-information/search-fda-guidance-documents/appropriate-use-voluntary-consensus-standards-premarket-submissions-medical-devices](http://www.fda.gov/regulatory-information/search-fda-guidance-documents/appropriate-use-voluntary-consensus-standards-premarket-submissions-medical-devices)
- **Recommended Content and Format of Non-Clinical Bench Performance Testing Information in Premarket Submissions: Guidance for Industry and Food and Drug Administration Staff**  
<https://www.fda.gov/media/113230/download>

# ASCA Resources

- **ASCA web page**  
[www.fda.gov/medical-devices/standards-and-conformity-assessment-program/accreditation-scheme-conformity-assessment-asca](https://www.fda.gov/medical-devices/standards-and-conformity-assessment-program/accreditation-scheme-conformity-assessment-asca)
- **ASCA program guidance**  
<https://www.fda.gov/regulatory-information/search-fda-guidance-documents/accreditation-scheme-conformity-assessment-asca-pilot-program>
- **ASCA Standards-specific guidances**
  - **Basic Safety and Essential Performance standards-specific guidance:**  
<https://www.fda.gov/regulatory-information/search-fda-guidance-documents/basic-safety-and-essential-performance-medical-electrical-equipment-medical-electrical-systems-and>
  - **Biocompatibility standards-specific guidance:**  
<https://www.fda.gov/regulatory-information/search-fda-guidance-documents/biocompatibility-testing-medical-devices-standards-specific-information-accreditation-scheme>
- **Ask ASCA! [ASCA@FDA.HHS.GOV](mailto:ASCA@FDA.HHS.GOV)**

# ASCA Draft Guidances

- **Draft ASCA Program Guidance:**  
<https://www.fda.gov/regulatory-information/search-fda-guidance-documents/accreditation-scheme-conformity-assessment-asca-program>
- **Draft ASCA Biocompatibility Guidance:**  
<https://www.fda.gov/regulatory-information/search-fda-guidance-documents/biocompatibility-testing-medical-devices-standards-specific-information-accreditation-scheme-0>
- **Draft ASCA Basic Safety and EP Guidance:**  
<https://www.fda.gov/regulatory-information/search-fda-guidance-documents/basic-safety-and-essential-performance-medical-electrical-equipment-medical-electrical-systems-and-0>
- **Docket for Commenting:**  
<https://www.regulations.gov/docket/FDA-2019-D-3805/document>

# QUESTIONS



**U.S. FOOD & DRUG**  
**ADMINISTRATION**