

COLLEGE of AMERICAN PATHOLOGISTS

FDA LDT Rule: Understanding Test Risk Classification and Its Impact on Your Laboratory

Donald Karcher, MD, FCAP CAP President

September 18, 2024



Today's Presenters

Donald S. Karcher, MD, FCAP

- President, College of American Pathologists
- Board-certified in anatomic, clinical, and hematopathology
- Professor and Immediate Past Chair of Pathology, George Washington University Medical Center, where he's been a faculty member since 1984
- An academic pathologist who has been active in many national and international medical and pathology organizations
- 30+ years as a CAP leader
- Served as Association of Pathology Chairs (APC) President from 2014 to 2016
- Published over 100 peer-reviewed articles and abstracts, coauthored several book chapters, and co-edited six books spanning his subspecialties



Today's Presenters

Timothy Stenzel, MD, PhD

- CEO Grey Haven LLC
- Board certified in pathology and genetics
- Former Director of the FDA's Office of In Vitro Diagnostics
- Over 25 years in executive leadership, innovation, companion diagnostics, molecular diagnostics, molecular genetics, immunology, infectious diseases, surgical pathology, and laboratory medicine
- Received his MD and PhD in microbiology and immunology from Duke University
- Founded the Duke Clinical Molecular Diagnostics laboratory; clinical and research laboratories in Japan and China respectively, and molecular diagnostics at QuidelOrtho



Background: FDA Oversight of LDTs

- Oversight of LDTs by FDA has been an issue for more than 10 years.
- When a legislative solution (VALID Act) didn't pass in 2022, FDA said they would regulate LDTs under their existing statutory authority.
- FDA released proposed oversight rule on Sept. 29, 2023, and final rule on April 29, 2024.



Background: FDA Oversight of LDTs

- **Basic provisions:** •
 - **Employs a three-tiered, risk-based structure.** 0
 - Phases out general enforcement discretion in five stages by May 2028. Ο
- While the FDA regulation includes exemptions, most LDTs must \bullet meet requirements for at least Stages 1, 2, and parts of 3.







Stage 1	 May 6, 2025 Compliance with medical device reporting, correction a reporting, and quality system requirements for complain
Stage 2	 May 6, 2026 Compliance with registration and listing, labeling, and i use requirements.
Stage 3	 May 6, 2027 Compliance with all quality system requirements.
Stage 4	 November 6, 2027 Pre-market review for high-risk LDTs.
Stage 5	 May 6, 2028 Pre-market review for moderate- and low-risk LDTs.

and removal aints.

investigational

Background: CAP Advocacy on LDT Oversight

- CAP advocacy principles on LDT oversight:
 - Protect patients. Ο
 - Allow for continued innovation of new tests.
 - Develop a framework that is the least burdensome and costly for pathologists and their laboratories.

• We oppose the final FDA rule.

- CAP supports legislation to reduce regulatory burdens on laboratories. Ο
- CAP supports legal efforts to stop the regulation's implementation. Ο
- At the same time, the CAP will continue to prepare members and laboratories to comply with FDA regulations.



Background: What is an LDT?

- The FDA defines LDTs as "in vitro diagnostic products (IVDs) that are 1) intended for clinical use; 2) designed, manufactured, and used within a single clinical laboratory that is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA); and 3) meets the regulatory requirements under CLIA to perform <u>high complexity testing</u>."
- By definition, all LDTs are high complexity.

Background: FDA Test Risk vs. CLIA Test Complexity

- FDA test risk classification is <u>different</u> from CLIA test complexity.
- CLIA regulations categorize tests as moderate or high complexity.
- CLIA categorization criteria (determined during FDA test authorization):
 - Knowledge needed to perform Ο
 - Training and experience needed to perform Ο
 - Reagents and materials preparation Ο
 - Characteristics of operational steps Ο
 - Calibration, quality control, and proficiency testing materials Ο
 - Test system troubleshooting and equipment maintenance required Ο
 - Interpretation and judgement required

Background: FDA Risk Classification

- FDA uses a system based on patient risk to classify medical devices/tests:
 - Low Risk (Class I)
 - Moderate Risk (Class II)
 - High Risk (Class III)
- The FDA's classification is based on the "intended use" and risk posed by the device/test to patients.



Understanding the Impact of the FDA's LDT Risk Classification on Your Laboratory

Tim Stenzel, MD, PhD, Former Director, FDA Office of In Vitro Diagnostics Grey Haven LLC



Disclaimers & Notes

Notes:

- 1) I will generally use lay/non-FDA language in this presentation to facilitate understanding of the concepts. However, FDA will typically use legal terms for most items. This is a new language to many and sometimes difficult to decipher. Most of the language is defined by law and regulations and is not intentionally meant to complicate understanding.
- 2) Much of the content in this presentation mirrors an FDA Webinar on this topic held on July 16, 2024. The first link at the end of this presentation is to that FDA Webpage.
- I will focus my presentation on clinical laboratory tests. 3)

Agenda

- Reclassification (Down) of Some CDx tests and Other IVDs
- Final LDT Rule and Potential Legislation
- FDA Classification Process/System
- Determining Classifications with Examples
- Communications with FDA
- Helpful Links
- Q&A

Down Classification of Some CDx Tests and Other IVDs

- On January 31, 2024 the FDA made known its decision to initiate a reclassification process for most IVDs that are currently Class III to Class II
- The FDA has prior exempted more than 1,000 IVDs from FDA review
- FDA reclassified HCV on November 19, 2021. Per Timothy Stenzel....'Today's action allows manufacturers of....HCV tests....to seek marketing clearance...rather than...a PMA"...
- In 2023, FDA began the process of reclassifying HBV and certain other IVDs to • class II

FDA reclassification process (usually down but can be up)

The original classification of a device can be changed through reclassification.

The FDA follows a process that includes issuing a proposed order, convening an expert panel, receiving and considering public comment, and issuing a final order.

The process usually takes ~2 years.



Final LDT Rule and Potential Legislation

- The Final rule was announced on 29APR2024, "grandfather" ended 06MAY2024, in force 60 days after publishes ~06JUL2024. Makes one change to the definition of an IVD product "including when the manufacturer of these products is a laboratory."
- Phaseout Period (by end of each period)

1 Year – comply with MD(AE) reporting and reporting of corrections and removals

2 Years – comply with labeling, registration and listing, and investigational use requirements

3 Years – QS [v light, light and full] – records and sometimes design controls and purchasing controls

3.5 Years – comply with high risk (class III) premarket review requirements (PMA)

4 Years – comply with **moderate and low risk** premarket review requirements moderate and low

- Enforcement Discretion (ED) continues for Forensic, HLA, PH Surveillance and pre-1976 type LDTs (manual)
- Excluded from ED EUAs, DTC (stay tuned for more details) and donor screening

FDA Classification System

The FDA uses a risk-based classification system for all medical devices, including Laboratory Developed Tests/IVDs, into Classes I, II, or III according to the level of regulatory control (mitigations) that are deemed necessary by the FDA to ensure accurate results.

The classification of a clinical laboratory test determines the appropriate premarket regulatory process.

The FDA also examines the intended use of the test when making a classification decision.

Indications for/Intended use

Purpose of the test – aid in diagnosis, CDx, MRD, etc.

- Disease or condition the test is designed for Leukemia, diabetes, etc.
- Test methodology used PCR, NGS, novel, etc.
- Intended patient population for the test Ages, high risk, low risk, cancer, etc.
- Where testing the test is performed LDTs will be performed in high complexity laboratories

Indications for/Intended use example

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H. Indications for Use:

1. Indications for Use:

The MSK-IMPACT assay is a qualitative in vitro diagnostic test that uses targeted next generation sequencing of formalin-fixed paraffin-embedded tumor tissue matched with normal specimens from patients with solid malignant neoplasms to detect tumor gene alterations in a broad multi gene panel. The test is intended to provide information on somatic mutations (point mutations and small insertions and deletions) and microsatellite instability for use by qualified health care professionals in accordance with professional guidelines, and is not conclusive or prescriptive for labeled use of any specific therapeutic product. MSK-IMPACT is a single-site assay performed at Memorial Sloan Kettering Cancer Center.

2. Special conditions for use statement(s):

For prescription use.

For in vitro diagnostic use.

3. Special instrument requirements:

Illumina HiSeq[™] 2500 Sequencer (qualified by MSK)

I. Device Description:

A description of required equipment, software, reagents, vendors, and storage conditions

Risk levels

Low Risk – Class I

Moderate Risk – Class II

High Risk – Class III

Tests with minimal risk for harm

Mid range risk for harm

risk of harm

Tests to support or sustain human life which present a potential for unreasonable

For tests already classified look to the FDA databases for their classifications

A straightforward way for a test developer to determine the classification of a test that has already been classified by FDA is to search the FDA product classification database. There are separate databases for 510(k), PMA, and De Novo submissions.

May also be helpful in understanding what specific IVDs fall within a given device type and how such IVDs are regulated.

What if your specific sample/specimen type or technology is not in the data

Usually, it does not alter the classification except for when the sample/specimen type or technology is novel. However, where differences in specimen type or technology between a subject IVD test system and those specified in a classification regulation raise different questions of safety and effectiveness, the classification regulation describing use for a specific specimen type or technology would not be appropriate for a different specimen type or technology. If manufacturers have questions regarding the classification of a specific test, they can submit a Pre-Submission or 513(g) request to obtain specific feedback.

For tests not already classified (typically novel tests)

An IVD may be of a type that has not already been classified by FDA and, therefore, would not be in the product classification database. As a reminder, device types that have not been classified by FDA previously, and that were not on the market prior to the enactment of the Medical Device Amendments on May 28, 1976, are automatically Class III unless they are reclassified by the FDA. If an IVD has not been classified, manufacturers should assess the risk of their IVD and submit the appropriate premarket submission based on the assessed risk. If the manufacturer believes their IVD is high risk, a PMA is likely required. If the manufacturer believes their IVD is low or moderate risk, the IVD may be eligible for De Novo classification. The De Novo process provides a pathway to Class I or Class II classification for medical devices for which general controls or general and special controls provide a reasonable assurance of safety and effectiveness but for which there is no legally marketed device.

What is a product code?

An FDA product code identifies the generic category of a test for FDA. A classification regulation may have multiple product codes associated with it. In this case, classification product codes help to delineate technology and indication subgroups within a regulation. However, a product code is only associated with one classification regulation or no regulation at all. In the latter case, they serve to categorize unclassified or Class III, PMA devices. Classification product codes are assigned and maintained by the FDA.

FDA product classification webpage

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Product Code Classification Database

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Classify Your Medical Device	The <u>Product Classification Database</u> contains medical device names and associated information developed by the Center for Devices and Radiological Health (CDRH) in support of its mission. This database contains device names	Content current as of:
Does the Product Emit Radiation?	and their associated product codes. The name and product code identify the generic category of a device for FDA. The Product Code assigned to a device is based upon the medical device product classification designated under 21	03/22/2018 Regulated Product(s)
How to Determine if	CFR Parts 862-892. These files are updated every Sunday.	Medical Devices Radiation-Emitting Products
a Medical Device	 Search the on-line product code database Information on how to classify a device 	Topic(s) FDA Activities Application &
Medical Device Accessories	<u>Download Product Code files</u>	Approvals
Device Classification Panels	Information on Devices Regulated by other Centers Devices regulated by CBER (Center for Biologics Evaluation and 	
Class I and Class II Device	Research) Intercenter Agreements which are working agreements developed	

Class II Device

Search options – Simple or Advanced

	Product Classification	
ome 💿 Medical Devices 💿 Databases	FDA Home Medical Devices Databases	
This database includes:		
 a list of all medical devices with their associated classifications, product codes, FDA premarket review organizations, and other regulatory information. 	 a list of all medical devices with their associated classifications, product codes, EDA P 	remar
Learn More	organizations, and other regulatory information.	- official
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Search Product Classification Search Advanced Search		
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	Device Product Code	
	Baview Band	
	Review Panel	
	Submission Type	
	Implanted Device Life-Sustain/Support Device Device Class	
	Implanted Device Implanted Device Device Class Summary Malfunction Reporting Implanted Device Implanted Device	

First Example – Lactic Acid – Class I Exempt

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Product Classification

FDA Home Medical Devices Databases

This database includes:

• a list of all medical devices with their associated classifications, product codes, FDA premarket review organizations, and other regulatory information.

Learn More...

Lactic acid

Advanced Search

Search



Lactic Acid

First page

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Product Classification

FDA Home Medical Devices Databases

1 to 3 of 3 results Lactic Acid

New Search		
Product Code	Device	
LPG	Material, Dressing, Surgical, Polylactic Acid	
KHP	Acid, Lactic, Enzymatic Method	
NGD	Test, Lactic Acid, Over The Counter	

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		Science & Research
		Regulatory Information
		Safety
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Lactic Acid – Enzymatic Method

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Product Classification

FDA Home Medical Devices Databases

New Search	
Device	Acid, Lactic, Enzymatic Method
Regulation Description	Lactic acid test system.
Regulation Medical Specialty	Clinical Chemistry
Review Panel	Clinical Chemistry
Product Code	KHP
Premarket Review	Office of In Vitro Diagnostics (OHT7 Division of Chemistry and Toxicolog
Submission Type	510(K) Exempt
Regulation Number	862.1450
Device Class	1
Total Product Life Cycle (TPLC)	TPLC Product Code Report
GMP Exempt?	No
Summary Malfunction Reporting	Eligible
Note: EDA has avampted almost	at all along I douises (with the average

Note: FDA has exempted almost all class I devices (with the exception of <u>reserved devices</u>) from the premarket notification requirement, including those devices that were exempted by final regulation published in the *Federal Registers* of December 7, 1994, and January 16, 1996. It is important to confirm the exempt status and any limitations that apply with <u>21 CFR Parts 862-892</u>. Limitations of device exemptions are covered under 21 CFR XXX.9, where XXX refers to Parts 862-892.

If a manufacturer's device falls into a generic category of exempted class I devices as defined in <u>21 CFR Parts</u> <u>862-892</u>, a premarket notification application and fda clearance is not required before marketing the device in the U.S. however, these manufacturers are required to register their establishment. Please see the <u>Device</u> <u>Registration and Listing website</u> for additional information.

Implanted Device?	No
Life-Sustain/Support Device?	No
Third Party Review	Not Third Party Eligible



Back to Search Results

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PCR – Class II Example

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Product Classification

FDA Home Medical Devices Databases

1 to 10 of 32 Res for <i>Pcr</i>	sults	1
New Search		
Product Code	Device	
<u>OBF</u>	Assay, Genotyping, Hepatitis C Virus	Nucleic Aci
<u>OYX</u>	Bcr/Abl1 Monitoring Test	
PAN	Braf Mutation Kit	
OJQ	Cardiac Allograft Gene Expression Profil	Cardiac All
PAB	Cytomegalovirus (Cmv) Dna Quantitative Assay	
PCA	Dna Genetic Analyzer	Instrume
PHG	Droplet Digital Pcr System	Instrume
<u>0Q0</u>	Herpes Simplex Virus Nucleic Acid Amplif	Herpes Si
QUM	Human Immunodeficiency Virus (Hiv) Viral	Human Immu
<u>OYV</u>	Inherited Nucleotide Repeat Disorder Dna Test	

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\$	Regulation ♦ Number
I-Based Hepatitis C Virus Rib	866.3170
BCR-ABL Quantitation Test	866.6060
ograft Gene Expression Profil	862.1163
tation For Clinical Multiplex T	862.2570
tation For Clinical Multiplex T	862.2570
mplex Virus Serological Assays	866.3305
nodeficiency Virus (HIV) Viral	866.3958
	866.5970

BCR-ABL Monitoring

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Product Classification

FDA Home Medical Devices Databases

New Search	
Device	Bcr/Abl1 Monitoring Test
Regulation Description Definition	BCR-ABL quantitation test.
	A BCR/ABL1 Monitoring Test is a quantitative in vit to monitor the BCR/ABL1 to ABL1 ratio by reverse polymerase chain reaction (RQ-PCR) on whole blo diagnosed Philadelphia chromosome positive (Ph+ leukemia (CML) patients expressing BCR-ABL1 fus e13a2 and/or e14a2. It is intended for use during n response by reporting results on the international s molecular reduction (MR) value.
Physical State	Multiplex quantitative RT-PCR assay to detect chro fusion transcripts and control transcripts test system
Technical Method	The test uses multiplex reverse-transcriptase poly detect and determine BCR-ABL1 (such as e13a2 a transcript levels and quantifies them relative to level other validated control gene). The test may utilize of quantification methods.
Target Area	Peripheral human whole blood or bone marrow.
Regulation Medical Specialty	Molecular Genetics
Review Panel	Pathology
Product Code	OYX
Premarket Review	Office of In Vitro Diagnostics (OHT7) Division of Molecular Genetics and Pathology (DM
Submission Type	510(k)
Regulation Number	866.6060
Device Class	2
Total Product Life Cycle (TPLC)	TPLC Product Code Report
GMP Exempt?	No
Summary Malfunction Reporting	Eligible
Implanted Device?	No
Life-Sustain/Support Device?	No
Third Party Review	Not Third Party Eligible

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Back to Search Results	
ro diagnostic device used transcriptase quantitative od or bone marrow of c) chronic myeloid sion transcripts such as nonitoring of treatment cale (%IS) and as log omosome translocation m. merase chain reaction to und/or e14a2) fusion els of ABL1 transcript (or other technologies and/or	
GP)	

Tumor Profiling – Class II

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Product Classification

FDA Home Medical Devices Databases

	1 to 4 of 4 Resul for <i>Tumor profili</i>	ing	
	New Search		
	Product Code	Device	
	<u>NYI</u>	Classifier, Prognostic, Recurrence Risk	Gene Express
	<u>SBY</u>	High Throughput Sequencing Based Tumor Profiling	g Test Of Circulating
	PZM	Next Generation Sequencing Based Tumor P	Next Generation
	<u>QFK</u>	Tumor Gene Profiling Test	

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Tumor Profiling Example

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Product Classification

FDA Home Medical Devices Databases

New Search	
Device	High Throughput Sequencing Based Tumor Profiling Test Of C
Definition	
	A high throughput sequencing based tumor profiling test of circ a qualitative in vitro diagnostic test intended for next generation circulating cell-free nucleic acids from plasma samples collected detect mutations in a panel of targeted genes to aid in the man diagnosed cancer patients by qualified health care professional prescriptive or conclusive for use of any specific therapeutic pr
Physical State	The test may include specimen handling, nucleic acid purificati target enrichment, and sequencing reagents, instrument system include devices intended to aid in the diagnosis, prognosis, scr recommend treatment decisions.
Technical Method	The test system uses high throughput sequencing technology, library preparation, target enrichment, and sequencing, sequer bioinformatics software, to detect variants in cell free nucleic at whole blood in specified genes associated with malignant neop
Farget Area	Human peripheral whole blood specimens
Regulation Medical Specialty	Pathology
Review Panel	Pathology
Product Code	SBY
Premarket Review	<u>Office of In Vitro Diagnostics</u> (OHT7) Division of Molecular Genetics and Pathology (DMGP)
Submission Type	510(k)
Regulation Number	866.6085
Device Class	2
Total Product Life Cycle (TPLC)	TPLC Product Code Report
GMP Exempt?	No
Summary Malfunction Reporting	Ineligible
Implanted Device?	No
Life-Sustain/Support Device?	No
Third Party Review	Not Third Party Eligible

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culating Cell-Free Nucleic Acids	
ating cell-free nucleic acids is sequencing analysis of from peripheral whole blood to gement of previously . The results of the test are not duct.	
n methods, library preparation, s and software. Should not ening of cancer, or make or	
cluding molecular reagents for ing instrumentation and ds isolated from peripheral asms.	

Cancer search – Class III

Product Classification FDA Home Medical Devices Databases 1 to 10 of 66 Results 1 2 3 4 5 for Cancer New Search Product 🛔 Device Code MJB Antigen, Cancer 549 Automated Breast Ultrasound PAA OEO Automated Digital Image Manual Interpret ... Immunohisto PAN **Braf Mutation Kit** Cancer Monitoring Test System, Soluble Mesothelin-Related Peptides, E <u>OAW</u> Mesotheliom... Cancer Monitoring Test System, Soluble M ... **NVA** Tumor-Associate Cancer Predisposition Risk Assessment System QAZ Cancer-Related Germline Gene Mutation Detection System PJG Chromogenic In Situ Hybridization, Nucleic Acid Amplification, Her2/Neu NYQ QSA Circulating Tumor Cell (Ctc) Enrichment Device

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\$	Regulation ♦ Number
chemistry Reagents And Kits	864.1860
pithelioid/Biphasic	
d Antigen Immunological T	866.6010
	866.6090
Gene, Breast Cancer	
	866.6110

Class III – Her2/Neu

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Product Classification

FDA Home Medical Devices Databases

New Search	
Device	Chromogenic In Situ Hybridization, Nucl
Definition	
	This device is intended to detect her2 get breast carcinoma tissue sections using of microscopy. Indicated as an aid in the as (trastuzumab) treatment is being consider within the context of the patients clinical
Physical State	brightfield microscopy
Technical Method	Chromogenic In Situ Hybridization
Target Area	breast carcinoma tissue sections
Review Panel	Immunology
Product Code	NYQ
Premarket Review	Office of In Vitro Diagnostics (OHT7) Division of Immunology and Hematology
Submission Type	PMA
Device Class	3
Total Product Life Cycle (TPLC)	TPLC Product Code Report
GMP Exempt?	No
Summary Malfunction Reporting	Ineligible
Implanted Device?	No
Life-Sustain/Support Device?	No
Third Party Review	Not Third Party Eligible



Back to Search Re

eic Acid Amplification, Her2/Neu Gene, Breast Can

ene amplification in formalin-fixed, paraffin-embedd chromogenic in situ hybridization and brightfield ssessment of patients for whom herceptin. ered. Interpretation of test results must be made history by a qualified pathologist.

/ Devices (DIHD)

De Novo Database Search - HCV

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Device Classification Under Section 513(f)(2)(De

FDA Home Medical Devices Databases

result found Pevice Name: <i>Hcv</i> Decision Date To: 9/18/2024	
New Search	
Device Name	Requester
Xpert HCV; GeneXpert Xpress System	Cepheid

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U.S. Food and Drug A 10903 New Hampshire Avenu Silver Spring, MD 20993 Ph. 1-888-INFO-FDA (1-888-4 Contact FDA Contact FDA For Government For Pr	Administration e 463-6332) I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Combination Products Advisory Committees Science & Research Regulatory Information Safety Emergency Preparedness International Programs News & Events Training and Continuing Education

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Do	wnload Files	More Abou	<u>ut De Novo</u>		
\$	De Novo Number	510(k) Number ♥	Decision Date €		
	DEN240016		06/27/2024		



De Novo Search -HCV

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Device Classification Under Section 513(f)(2)(De Nov

FDA Home Medical Devices Databases



510(k) | DeNovo | Registration & Listing | Adverse Events | Recalls | PMA | HE CFR Title 21 | Radiation-Emitting Products | X-Ray Assembler | Medsun Re

Device Classification Name	<u>Simple Point-Of-Care</u> <u>Hepatitis C Virus Rib</u> e
De Novo Number	DEN240016
Device Name	Xpert HCV; GeneXpe
Requester	Cepheid 904 Caribbean Drive Sunnyvale, CA 9408
Contact	Suzette Chance
Regulation Number	<u>866.3171</u>
Classification Product Code	SBP
Date Received	04/16/2024
Decision Date	06/27/2024
Decision	Granted (DENG)
Classification Advisory Committee	Microbiology
Review Advisory Committee	Microbiology
Reclassification Order	Reclassification Orde
Туре	Direct

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PMA HDE Classification Standards Medsun Reports CLIA TPLC	
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nt-Of-Care Nucleic Acid-Based 2 Virus Ribonucleic Acid Test 6	
; GeneXpert Xpress System	
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HCV De Novo – Additional Information

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Cepheid Wei Zhang Manager, Regulatory Affairs, New Product Development 904 Caribbean Drive Sunnyvale, California 94089

Re: DEN240016

Trade/Device Name: Xpert HCV; GeneXpert Xpress System Regulation Number: 21 CFR 866.3171 Regulation Name: Simple point-of-care nucleic acid-based hepatitis C virus ribonucleic acid test Regulatory Class: Class II Product Code: SBP Dated: April 15, 2024 Received: April 16, 2024

Dear Wei Zhang:

The Center for Devices and Radiological Health (CDRH) of the Food and Drug Administration (FDA) has completed its review of your De Novo request for classification of the Xpert HCV; GeneXpert Xpress System, a prescription device with the following indications for use:

The Vest HOU test conformed on the Cane Vest Vesses Custom is an automated in vitro average



June 27, 2024

De Novo HCV – Special Controls

In combination with the general controls of the FD&C Act, the simple point-of-care nucleic acid-based HCV RNA test is subject to the following special controls:

- Any sample collection device used must be FDA-cleared, -approved, or -classified as 510(k) exempt (1)(standalone or as part of a test system) for the collection of the sample types with which this device is intended to be used; alternatively, the sample collection device must be cleared in a premarket submission as a part of this device.
- The labeling required under 21 CFR 809.10(b) must include: (2)
 - A prominent statement that the test is not intended for use as a donor screening test for the (i) presence of HCV RNA from human cells, tissues, and cellular and tissue-based products;
 - A detailed explanation of the principles of operation and procedures for performing the assay; (ii)
 - Detailed descriptions of the performance characteristics of the device for each specimen type (111)identified in the intended use based on the required analytical and clinical studies;
 - A brief reference sheet (Quick Reference Instructions) for the intended user(s) that includes the (iv) name and intended use of the test, step-by-step instructions of all control and sample testing procedures for the identified specimen types, the result(s) interpretation recommendations, warnings and limitation statements, and information for troubleshooting or technical assistance with the device; and
 - Limitations, which must be updated to reflect current clinical practice and disease presentation (v) and management. These limitations must include statements that indicate:
 - The specimen types for which the device has been cleared and that use of this test kit with (A) specimen types other than those specifically cleared for this device may result in inaccurate test results.
 - When applicable, that assay performance characteristics have not been established in **(B)**

Some thoughts when communicating with the FDA

The FDA staff are bright, hardworking, dedicated and want to be helpful to developers. They are prepared to be disrespected, as they too often are. Just like anything else, honey may be more effective in the long run than vinegar as it allows for free-flowing two-way problem-solving communication. If a developer asks for help they are usually more than willing to help.

They will use legal/regulatory language as their work must be ready to hold up in court, if needed. You might be surprised how often the FDA is threatened with legal action, even outside of LDTs.

They approach things from a scientific basis. New technologies are examined from this perspective, and they are sure to benefit from a brief primer on your technology.

New technologies may require different FDA approaches, always feel free to suggest approaches that may work.

Links

FDA Webinar - In Vitro Diagnostic Product (IVD): Classification Webinar - In Vitro Diagnostic Product (IVD): Classification - 07/16/2024 | FDA

Product Classification Database <u>https://www.fda.gov/medical-devices/classify-your-medical-</u> device/product-code-classification-database

PMA Class III Database https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMA/pma.cfm

De Novo Database (typically Class II) https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMN/denovo.cfm

510(k) Database (Class I, Class II and/or Exempt) https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMN/pmn.cfm

De Novo Classification Process <u>https://www.fda.gov/media/72674/download</u>

Q-Submission https://www.fda.gov/media/114034/download

Questions and Answers



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Top 5 Takeaways

- FDA classifies medical devices based on risk and intended use of the device.
 - CLIA has its own separate system for categorizing test complexity. Risk does not equate to complexity. 0
- Factors to consider to determine if your LDTs is Class I, II or III are intended use and risk posed to patients.
- The risk and intended use also determines the extent of regulatory controls.
- The FDA recommends searching the medical device database for examples to help determine the appropriate regulatory controls for IVDs.
- Device determination and pre-submission requests are available to assist with classification and regulatory pathway questions.

Six-Part Webinar Series on LDTs

- Register for our other webinar programs:
 Understand and Prepare for the Impact of the FDA's LDT Final Rule
 - How You Meet Stage 1's Adverse Event Reporting Requirement (November 7, 2024)
 - Stage 1 Basics on Corrective Action and Removal Reporting (January 9, 2025)
 - The Stage 1 Rules on Quality Systems Complaints (March 20, 2025)
 - How Enforcement Discretion Categories & Modification Rules Apply to Your LDTs (May 8, 2025)
 - Navigating FDA LDT Oversight Requirements During Public Health Emergencies (July 10, 2025)



