Medical Devices and Diagnostic Products that May Contain or Be Coated with Heparin

This list is not meant to be exhaustive and will be updated as additional information becomes available. It is for information purposes only. FDA does not mean to suggest, in any way, that the products herein have been or are affected by contaminated heparin. Items in red are in-vitro diagnostic products.

Manufacturer or Distributor	<u>Product</u>
3M Health Care	3M CDI Quick-Cells with Heparin Treatment 3M Sarns Flow Sensor , Centrifugal Control Module Sarns Arterial Cannulae with Duraflo Treatment Sarns Venous Return Catheters with Duraflo Treatment
A-Med Systems, Inc.	Heparin Coated Miniature Centrifugal Bypass Pump
AMO Groningen BV	CEEON Heparin Surface Modified UV Light-Absorbing Posterior Chamber IOLs CEEON Heparin Surface Modified UV Light-Absorbing Anterior Chamber IOLs
Akers Labs	Platelet Factor 4 RIA
Alsius	Coolgard and catheter thermal regulation system Thermogard System ICY Catheter Models IC3583 and IC3893 Quattro Catheter IC4593 Fortius Catheter
AM2 PAT Inc.	Sierra Heparin Flushes
American Bentley	Heparin Coated Arterial Blood Filters Heparin Coated Extracorporeal Circuits
American Edwards Laboratories	Heparin Coated Catheter Swan-Ganz Heparin Coated Catheter
American Bioproducts	Ptt-Lt Stachrom Heparin

American Dade Lithium Heparinized Blood Collect-Tube

Actin Fs APTT

American Diagnostica Actichrome Heparin

Amsino Medical USA Heparin Flushes

APP Heparin Flushes

Argon Medical Corporation Heparin Coated Stainless Steel and Teflon Heparin-Coated Guidewires

Heparin Coated Thermodilution Catheters

Arrow International, Inc. Arrow-Howes large bore multi-lumen central venous catheter

HANDS-OFF Heparin Coated Thermodilution Catheters

Artefactos De Vidrio S.A. De C.V. Ven-O-Vac Blood Collection Vacuum Tubes

Atrium Medical Atrium Heparin Coated Catheters

Avecor Cardiovascular Inc. Affinity Hollow Fiber Oxgenator with Trillium Biopassive Surface

Avitro LLC Heparin Flushes

B. Braun of America H.E.L.P System

Heparin Flushes

Baxter Bentley Laboratories Duraflo II Heparin Treated Suction Wands

Duraflo II Heparin Treated Femoral Cannulae

Baxter Edwards Carpenter-Edwards Classic Ring with Duraflo Treatement

Baxter Healthcare Corp. Hep-LOCK Heparin Flushes

Becton Dickson B-D Heparinized Longdwel IV Catheter

Heparin Coated Thermodilution Catheter Heparin Coated Luminal Pacing Catheter

Heparin Flushes

Vacutainer Brand Plus Sodium Heparin Tube

Bd Vacutainer Plus Pst li Tube

Vacutainer Brand Blood Collection Syringe

Bio/Data Corp Cephalinex APTT

Biosensors Intl PTE, LLC Heparin Coated Thermodilution Catheters

Biotrack, Inc Biotrack APTT

Boston Scientific Corp Constellation Multiple Electrode Pacing and Recording System

Cardiac Assist, Inc. TandemHeart Transseptal Cannula Set-EF

Cardiovascular Diagnostic Services Aoag-1 APTT Test Card

Cardiovascular Diagnostics (Tas) Low Range Heparin

Careside Hemotology APTT

Celsus Heparin Flushes

Ciba Corning Diagnostics Corp. Ciba Corning Blood Collection Capillary Tube

Coaxia Inc Coaxia Neuroflo Catheter

COBE Laboratories Heparinized Arterial Screen Blood Filter

Sentry Smarxt 43 Micron Arterial Filter

Smarxt BMR 1900 Closed Venous Reservoir Bag Smarxt VVR 4000 Filtered Hardshell Venous Reservoir Smarxt VVR4000I Plus Filtered Hardshell Venous Reservoir Smarxt HVR 4000 Surface Modified Hardshell Venous Reservoir

Closed Venous Reservior Bags with Smarxt

Sorin Biomedica Smarxt BCD Vanguard Surface Modified Blood Cardioplegia System

Smarxt Optimin Surface Modified Hollow Fiber Membrane Oxygenator Smarxt Optima XP Surface Modified Hollow Fiber Membrane Oxygenator

CML Duo with Smarxt Surface Modified Membrane Oxygenator

Smarxt Tubing and Connectors

Cook, Inc Amplatz Heparin Coated Catheter

Cordis BX Velocity with Hepacoat Coronary Stent

Covidien Heparin Flush Solutions

Palindrome Emerald 14.5 Fr Chronic Hemodialysis Catheter with Heparin Coating

14.5 Fr Chronic Hemodialysis Catheter with Heparin Coating and Silver Impregnated Sleeve (Palindrome Sapphire)

Critikon Company, LLC Heparin-Coated Balloon Thermodilution Catheters

Current Technologies Inc.

Arterial Micro Collection Kit

Prefilled Arterial Blood Sampling Syring

Dade Behring, Inc. Dimension Vista System Drugs of Abuse Calibrator

Dade, Baxter Travenol Heparin Assay

Daig Corp Heparin Bonding for Cathteters

Datascope Corp Percluder-DL Occluding Balloon Heparin Coated

Diagnostica-Stago Rotachrom Heparin

Dupont Medical Products Dupont Apc Blood Collection Container With Lithiu

Edwards Lifesciences Embol-X Intra-Aortic Filter

Heparin Coated Arterial Blood Filters

Retrograde Cardioplegia Cannula with Duraflo

PediaSat Oligon Oximetry Catheters with AMC Thromboshield Heparin Coating PreSep Oligon Oximetry Catheters with AMC Thromboshield Heparin Coating

Polyethylene Central Venous Catheter with Heparin Coating Swan-Ganz and Edwards Laboratories Heparin Coated Catheters Edwards Vantex Central Venous Catherer with Thromboshield Coating

Edwards AVA 3Xi Device with Thromboshield Coating

Edwards AVA High-Flow Device with Thromboshield Coating

Edwards IntroFlex Percutaneous Sheath Introducer with Thromboshield Coating

Venous Reservoir Bag Model No. BMR-800 with Heparin Venous Reservoir /Cardiotomy Autotransfusion Filter Duraflo II Heparin Oxygenator Model Univox Gold Univox Gold Membrane Oxygenator with Duraflo Extracorporeal Circuit with Duraflo II Heparin Treatment Sarns Centrifugal Pump with Duraflo II Treatment Jackson-Pratt Gold Wound Drains with Duraflo II

Bentley Quick-Prime Hemoconcentrator with Duraflo Treatment

Electro-Catheter Corp Elecath Heparin-Coated Catheters

Elecath Heparin-Coated Temporary Pacing Catheters Elecath Heparin-Coated Thermal Dilution Catheters

Em Diagnostics Easy-Test PTT

Embol-X, Inc. Embol-X Aortic Filters

Aortic Cannula Metal J-Tip (24 Fr)

Embol-X Aortic Occlusion and Carioplegia Cannula

Embol-X Introducer Model CF00200

Emisphere Technologies, Inc Heparin Flushes

EV3 Spiderfx Embolic Protection Device

Excelsior Medical Heparin Flushes

GISH Biomedical, Inc.

GISH Tubing and Connectors with GBS Coating

GISH Arterial Filter with GBS Coating

GISH ATR2900 and CAP35 Series Reservoirs with GBS Coating

V-Bag with GBS Coating

GISH CAPVRF44 Hardshell Venous Reservoir Ba with GBS Coating

Soft Venous Reservoir (SVRXX) with GBS Coating

IBC Flopump with GBS Coating

Vision Blood Cardioplegia System and Extracorporeal Heat Exchanger with GBS Coating

Gould, Inc. Heparin Coated Thermodilution Catheters

Greiner Bio-One Greiner Vacuette Blood Collection Tube W/Lithium

Vacuette Evacuated Blood Collection Tubes

Greiner Meditech Inc.

Greiner Minicollect Li Heparin Gel

Greiner Minicollect Lithium Heparin Gel Blood Col

Guidant Corp Neurolink System

Helena Laboratories Chrom Z-Heparin

APTT-ES

Hospira, Inc. Opticath Central Venous Oximtery Probes

Latex-free Advanced Sensor Catheters

Flow-Directed Heparin Coated Thermodilution Catheter

Opticath Catheter

Opticath Heparin Coated Flow Directed Catheter Oximetrix Flow Directed Thermal Dilution Catheter

Hyphen Biomed Biophen Heparin 3,6

Infusaid Corp Heparin Lock Maintenance Kit

Innerdyne, Inc. Innerdyne Radially Expanding Vascular Access System

Instrumentation Laboratory Co Heparinized Flow Directed Thermal Dilution Catheter

II Test

Coamatic Heparin

International Technidyne (ITC) Hemochron Jr

Hemochron Kaolin-Activated Heparin

Intervascular, Inc. Intergard Knitted Collagen Coated and Heparin Bonded Vascular Protheses

Intergard Knitted Ultra-Thin Collagen Coated and Heparin Bonded Vascular Protheses

J-Lloyd Medical, Inc. Flow Direct Thermodilution Balloon Catheter with Heparin Coating

Johnson & Johnson Arterial 20/40 Micron Filters with Heparin Coating

KMA Inc. Heparin Coated Thermodilution Catheter

Maquet Cardiopulmonary AG Jostra Quadrox D Diffusion Membrane Oxygenator with Bioline Coating

Mansfield Scientific Heparin Coated Temporary Pacing Electrode

Marksman Arterial Blood Gas Syringe

Medefil, Inc. Heparin Flushes

Medelec Intl. Corp. Blood Specimen Collection Devices

Medical Components, Inc MedComp DUO-COAT Catheter Double Lumen

Medrad, Inc.

Benzalkonium-Heparin Coated Guidewires

Medtronic Trillium Bio Disposable Blood Flow Probe

Trillium Tri-Optic Measurement Cell

Trillium Affinity NT Cardiotomy Venous Reservoir

Trillium Biopump Plus Model BPX80T

Affinity 20 Micron Arterial Filter with Trillium Biosurface Affinity 38 Micron Arterial Filter with Trillium Biosurface

Select 3D (and CAP) Arterial Cannula with Carmeda Boactive Surface

Affinity Pediatric Arterial Filter
Affinity NT Hollow Fiber Oxygenator

Trillium Myotherm XP Cardioplegia Delivery System
Tubing and Connectors with Trillium Biopassive Surface

Carmeda or Trillium Coated Myotherm Blood Cardioplegia System

Carmeda Coated Intersept Pediatric Arterial Filter Minimax/Maxima Hollow Fiber Oxygenators

Minimax Oxygenation System

Mentor Corp Mentor Tissue Expanders with TDMAC Coating

Microbio-Medics Inc. Microtek Medical'S Blood Collection Kit

Millenia Healthcare, Corp. Heparin Flushes

Morris innovative Research, Inc. Femoral Introducer Sheath and Hemostasis (FISH) Device 5, 6, and 8 French

Nova Medical Speicialties Heparin Coated Balloon Thermodilution Catheters

Novalung GMBH Novalung Surgical Lung Assist (SLA) Membrane Lung

Organon Teknika MDA Heparin Anti-X

Ortho Synthafax

Oximetrix Inc. Opticath Heparin Coated Flow Direct Catheter

Pacific Hemostasis Thromboscreen APTT

Parke-Davis Co. Deseret Heparin Coated Flow Catheters

Parker Pharmaceutical, Inc. Heparin Flushes

Physician Industries, Inc. PICC Insertion Tray with Hep-LOCK Heparin Flush

Precision Biologicals APTT Reagent

Radiant Medical Endocatheter Temperature Probe

Setpoint Endovascular Temperature Management System Reprieve Endovascular Termperature Therapy System

Radiometer Medical Aps Safepico

Ram Scientific Safe-T-Fill Capillary Blood Collection System

Research Industries Corp. Duraflo II Heparin Treated Cannulae

Research Medical. Inc.

TDMAC-Heparin Coated RMI Carotid Bypass Shunt

Rocap/Sabratek Corp Heparin Flushes

Roche Diagnostics Coaguchek

Safety Diagnostics Inc. Pinset

Shapes Heparin Flushes

Shelhigh, Inc Delcol Heparinized Pericardial Substitute

Sherwood Medical Co. Argyle Griffith TDMAC Heparinized Veno-venous Shunt

Heparinized Wound Suction Tubing Heparinized Saratoga Sump Drain Heparinized Penrose Tubing Heparinized Intravenous Cannula

Lancer Coagent APTT

Monoject Sample Capillary Plasma Sep W/Lith Hepar

Monoject Samplette Capillary Blood Coll Monojet Sps Blood Collection Tube

Sigma APTT Reagent

Sims Portex Inc. Pro-Vent Pulsator Arterial Blood Sampling Syring

Smith's Healthcare Manufacturing Injection Adaptor Heparin Lock

Smiths Industries Medical Systems In Sims Pro-Vent 250 (500) Plus Arterial Blood Sample

Smith's Medical ASD Injection Adaptor Heparin Lock

Solo Pak Labs Heparin Flushes

Sorenson Research Flow-Directed Heparin Coated Thermodilution Catheter

Spectramed, Inc. Heparin Coated Luminal Pacing Catheter

Spire Biomedical, Inc. 15.5 Fr Decathalon Coated Catheters

Starplex Scientific Inc. Vacuplus Tubes With Green Stoppers

Statspin Technologies Statspin Statsampler

Sunscope Intl, Inc. Heparin Coated Thermodilution Catheter and Accessories

Terumo Corp. Capiject Sys Capillary Blood Collect

Venoject li Blood Collection Tubes

Vital Scientific APTT

Vital Signs, Inc Heparin Flushes

W.L. Gore & Associates, Inc. Gore Propaten Vascular Graft

Gore Viabahn Endoprosthesis with Heparin Bioactive Surface

Wako Intl. Inc. Seri-Sep Serum/Plasma Islolator