



September 16, 2025

Microtek Medical LLC
% Prithul Bom
Most Responsible Person
REGULATORY TECHNOLOGY SERVICES, LLC
1000 Westgate Drive, Suite #510k
Saint Paul, MN 55114

Re: K251676

Trade/Device Name: Medline Microtek C-Flo Bag Decanter, Sterile (2000S); Medline Microtek Bag Decanter II, Sterile (2002S); Medline Microtek Vial Decanter, Sterile (2006S); Medline Microtek Transfer Device, Sterile (2008S)

Regulation Number: 21 CFR 880.5440

Regulation Name: Intravascular Administration Set

Regulatory Class: Class II

Product Code: LHI

Dated: September 8, 2025

Received: September 8, 2025

Dear Prithul Bom:

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 (the 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. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database available at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm> identifies combination product submissions. 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.

Additional information about changes that may require a new premarket notification are provided in the FDA guidance documents entitled "Deciding When to Submit a 510(k) for a Change to an Existing Device" (<https://www.fda.gov/media/99812/download>) and "Deciding When to Submit a 510(k) for a Software Change to an Existing Device" (<https://www.fda.gov/media/99785/download>).

Your device is also subject to, among other requirements, the Quality System (QS) regulation (21 CFR Part 820), which includes, but is not limited to, 21 CFR 820.30, Design controls; 21 CFR 820.90, Nonconforming product; and 21 CFR 820.100, Corrective and preventive action. Please note that regardless of whether a change requires premarket review, the QS regulation requires device manufacturers to review and approve changes to device design and production (21 CFR 820.30 and 21 CFR 820.70) and document changes and approvals in the device master record (21 CFR 820.181).

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 Part 803) for devices or postmarketing safety reporting (21 CFR Part 4, Subpart B) for combination products (see <https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR Part 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR Parts 1000-1050.

All medical devices, including Class I and unclassified devices and combination product device constituent parts are required to be in compliance with the final Unique Device Identification System rule ("UDI Rule"). The UDI Rule requires, among other things, that a device bear a unique device identifier (UDI) on its label and package (21 CFR 801.20(a)) unless an exception or alternative applies (21 CFR 801.20(b)) and that the dates on the device label be formatted in accordance with 21 CFR 801.18. The UDI Rule (21 CFR 830.300(a) and 830.320(b)) also requires that certain information be submitted to the Global Unique Device Identification Database (GUDID) (21 CFR Part 830 Subpart E). For additional information on these requirements, please see the UDI System webpage at <https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/unique-device-identification-system-udi-system>.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance>) and CDRH Learn (<https://www.fda.gov/training-and-continuing-education/cdrh-learn>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory->

[assistance/contact-us-division-industry-and-consumer-education-dice](#)) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

David Wolloscheck -S

David Wolloscheck, Ph.D.

Assistant Director

DHT3C: Division of Drug Delivery and

General Hospital Devices, and

Human Factors

OHT3: Office of Gastrorenal, ObGyn,

General Hospital, and Urology Devices

Office of Product Evaluation and Quality

Center for Devices and Radiological Health

Enclosure

Indications for Use

Submission Number (if known)

K251676

Device Name

Medline Microtek C-Flo Bag Decanter, Sterile (2000S);
Medline Microtek Bag Decanter II, Sterile (2002S);
Medline Microtek Vial Decanter, Sterile (2006S);
Medline Microtek Transfer Device, Sterile (2008S)

Indications for Use (Describe)

Microtek decanters are intended for the aseptic transfer of solutions (eg. IV fluids and medications) from IV containers

- Bag decanters are for use in transferring IV fluids and medication from a bag to an IV fluid administration device.
- Vial decanters are for use in transferring IV fluids and medications from a vial to an IV fluid administration device.
- Transfer devices are for use in transferring IV fluids and medications from a vial or medication container to an IV fluid administration device.

Microtek decanters are suitable for adult and pediatric patients. The use of decanters is at the discretion of the healthcare professional.

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.

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K251676 - 510(k) Summary

Submitter

510(k) submitted by:

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Establishment Registration Number: 3014342658

Contact person:

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Submission Date: 15 September 2025

Device

The following trade names are applicable to the devices

Medline Microtek C-Flo Bag Decanter, Sterile (2000S)

Medline Microtek Bag Decanter II, Sterile (2002S)

Medline Microtek Vial Decanter, Sterile (2006S)

Medline Microtek Transfer Device, Sterile (2008S)

The common or usual names for this type of product:

I.V. Fluid Transfer Set

Regulation Number: 21 CFR 880.5440

Regulation Name: Intravascular administration set

Product Code: LHI

Classification Panel: General Hospital

Device Classification: Class II

Submission Type: 510(k) Traditional

Primary Predicate Device

GCMEDICA Transfer Device (K182819)

Device Description

Microtek decanters and transfer devices are provided sterile and for use in a single procedure only. They consist of a hollow tube with protective removable caps at either end. The injection molded hollow tube has at least one spiked end used to access the source container to initiate fluid transfer. The vial decanter includes a built-in splash guard.

Decanters and transfer devices are designed to transfer medical fluids (e.g.: medications and solutions) between various containers. Below is a summary of the different configurations.



Model Number(s)	Description	Container Configuration	Overall Length (of finished device without caps)	Materials
2000S	C-Flo Bag Decanter, Sterile	Bag to an IV fluid administration device	8.25"	PMMA
2002S	Bag Decanter II, Sterile	Bag to an IV fluid administration device	8.25"	HIPS825
2006S	Vial Decanter, Sterile	Vial to an IV fluid administration device	6"	HIPS825, ABS
2008S	Transfer Device, Sterile	Vial or medication container to an IV fluid administration device	3"	ABS

Indications for Use

Microtek decanters are intended for the aseptic transfer of solutions (eg. IV fluids and medications) from IV containers

- Bag decanters are for use in transferring IV fluids and medication from a bag to an IV fluid administration device.
- Vial decanters are for use in transferring IV fluids and medications from a vial to an IV fluid administration device.
- Transfer devices are for use in transferring IV fluids and medications from a vial or medication container to an IV fluid administration device.

Microtek decanters are suitable for adult and pediatric patients. The use of decanters is at the discretion of the healthcare professional.

Substantial Equivalence

Microtek decanters are medical fluid transfer devices with the same intended use as the predicate device: GCMEDICA Transfer Device.

There are a variety of medical fluid transfer devices on the market covering a wide range of materials and designs. The use of the spike and tube facilitates a sterile path for the medical fluid to flow through. Decanting or transfer devices help ensure the aseptic transfer of medical fluids from one container to another.

Device Name	Proposed Device: Microtek decanting and transfer devices	GCMEDICA Transfer Device (various models)	Comparison Analysis
Regulation Number	21 CFR 880.5440	21 CFR 880.5440	Same
Product Code	LHI	LHI	Same
Premarket Notification	New Device	K182819	N/A



Indications for Use	Microtek decanters are intended for the aseptic transfer of solutions (eg IV fluids and medications) from IV containers. • Bag decanters are for use in transferring IV fluids and medication from a bag to an IV fluid administration device. • Vial decanters are for use in transferring IV fluids and medications from a vial to an IV fluid administration device. • Transfer devices are for use in transferring IV fluids and medications from a vial or medication container to an IV fluid administration device.	• Bag Transfer Devices: Intended for the aseptic dispensing of solutions from IV containers. For use in transferring IV fluids/medication from a bag to an IV fluid administration device. • Vial Transfer Devices: Intended for the aseptic dispensing of solutions from IV containers. For use in transferring IV fluids/medication from a vial to an IV fluid administration device.	Same
Intended Patient Population	Microtek decanters are suitable for adult and pediatric patients. The use of decanters is at the discretion of the healthcare professional.	None stated / general population	Similar. Microtek decanters meet EO residual level for adult and pediatric patients, including infants and neonates.
Device Materials	2000S: PMMA 2002S: HIPS825 2006S: HIPS825, ABS 2008S: ABS	GC0652DD, GC0653DD, GC0654DD: ABS, PE GC0654DT: K Resin, PE	Similar polymer based plastic materials. Biocompatibility testing was performed on subject devices per ISO 10993-1. The differences do not raise any question regarding the device safety or effectiveness.
Operating principle	• Aseptic transfer of medical fluids • Spike and tube to facilitate fluid flow	• Through the use of a spike/stick, facilitates creation of a sterile path • Decanting device helps ensure an aseptic transfer or removal of fluids/medication	Same
Sterilization	EO	EO	Same



Device components/features Spike, tube, splashguard, caps	• Bag Decanters (2000S, 2002S) consists of one spike, tube and caps for ends • Vial Decanters (2006S) consists of one spike, tube, splashguard, and caps for ends • Transfer Device(2008S) consists of two spikes and caps for spikes	• GC0654DT and GC0654DD consist of one spike, tube and caps for ends • GC0653DD consists of one spike, tube, splashguard and caps for ends • GC0652DD consists of two spikes and caps for spikes	Same
Length	• 2000S, 2002S: 8.25" • 2006S: 6" • 2008S: 3"	• GC0654DT: 9" • GC0654DD: 9" • GC0653DD: 6" • GC0652DD: 3"	No significant differences. Any slight length differences do not raise any question regarding the device safety or effectiveness.
Biocompatibility Test to ISO 10993-1 and applicable parts of series	• ISO 10993-1:2018 • ISO 10993-4:2017 • ISO 10993-5:2009 • ISO 10993-10:2021 • ISO 10993-11:2017 • ISO 10993-23:2021	• ISO 10993-1:2009 • ISO 10993-4:2017 • ISO 10993-5:2009 • ISO 10993-10:2010 • ISO 10993-11:2017	No significant differences. Biocompatibility testing did not raise any question regarding device safety.

The proposed Microtek decanters and transfer devices are substantially equivalent in intended use, device characteristics, device design and function in comparison to the predicate devices. As reflected in the Substantial Equivalence Comparison Table, there are no significant differences when comparing the proposed devices to the predicate devices. Functional performance and material biocompatibility testing included within this 510(k) supports the safety and effectiveness of the proposed devices and further verifies predicate equivalence.

Technological characteristics

Information included in this submission demonstrates that there are no significant differences in technological characteristics between Microtek decanting and transfer devices and the cited predicate devices.

Sterilization

The Microtek decanters and transfer devices are sterilized by terminal ethylene oxide sterilization. The method used for this validation study is the half cycle approach referenced in Annex B Overkill approach of ISO 11135:2014. Sterility Assurance Level (SAL) = 10^{-6}

- Ethylene Oxide residuals ≤ 0.21 mg, in accordance with ISO 10993-7 for limited exposure devices.



- Ethylene Chlorohydrin levels ≤ 0.45 mg, in accordance with ISO 10993-7 for limited exposure devices.

Biocompatibility

The biocompatibility evaluation for this device was conducted in accordance with ISO 10993-1:2018, Biological Evaluation of Medical Devices - Part 1: Evaluation and Testing Within a Risk Management Process, as recognized by FDA.

The following Biocompatibility tests were conducted on the clear bag decanter and a vial decanter. The results of all testing were passing.

Biocompatibility Test	Standards
In Vitro Hemocompatibility Testing (Rabbit blood) Standard practice for Assessment of Hemolytic Properties of Materials	ISO 10993-4:2017 ASTM F756-17
In Vitro Cytotoxicity Test	ISO 10993-5:2009
Skin Sensitization Test: Guinea Pig Maximization Test (0.9% Sodium Chloride Injection Extract)	ISO 10993-10:2021
Skin Sensitization Test: Guinea Pig Maximization Test (Sesame oil Extract)	ISO 10993-10:2021
Acute Systemic Toxicity (0.9% Sodium Chloride Injection Extract, Intravenous)	ISO 10993-11:2017
Acute Systemic Toxicity (Sesame Oil Extract, Intraperitoneal)	ISO 10993-11:2017
Pyrogen Test (0.9% Sodium Chloride Injection Extract, Rabbit)	ISO 10993-11:2017
Intracutaneous Reactivity Test (0.9% Sodium Chloride Injection Extract and Sesame Oil Extract)	ISO 10993-23:2021

Performance Testing

The Microtek decanters and transfer devices have been tested for the dimensional requirement of closure piercing per ISO 22413:2021 and all other relevant performance requirements in accordance with ISO 8536-4:2019. All performance testing on the subject devices has demonstrated that they meet the necessary safety and efficacy standards, establishing equivalence to the proposed predicate devices.

Risk Management



The design and use risks for the Microtek decanters and transfer devices were evaluated using a process compliant with ISO 14971:2019. After application of risk control, all risks identified in the risk assessment were deemed to be broadly acceptable.

Conclusion

In accordance with 21 CFR Part 807 and based on the information provided in this premarket notification, Microtek Medical LLC concludes that the Microtek decanters and transfer devices are as safe, as effective and substantially equivalent to predicate devices in terms of intended use, device characteristics, device design, function and biocompatibility as described herein.