

Set Medikal Sanayi Ve Ticaret Anonim Sirketi % Mehmet Ormeci Consultant Medcer Uluslararasi Medikal Belgelendirme Anonim Sirketi Taspinar Mahallesi 2800. Caddesi A-2 Apt. No:6 B/49 Ankara, 06830 Turkey

Re: K210200

Trade/Device Name: 1 ml Sterile Hypodermic Syringe For Single Use. With/Without Needle.

Luer/Luer-Lock

Regulation Number: 21 CFR 880.5860 Regulation Name: Piston Syringe

Regulatory Class: Class II Product Code: FMF, FMI Dated: April 7, 2021 Received: April 16, 2021

Dear Mehmet Ormeci:

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. 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 located 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 <u>Federal Register</u>.

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) for devices or postmarketing safety reporting (21 CFR 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 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 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-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/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,

for Rumi Young
Acting 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

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

510(k) Number (if known)

Form Approved: OMB No. 0910-0120

Expiration Date: 06/30/2020 See PRA Statement below.

K210200
Device Name Sterile Hypodermic Syringe for Single use, with/without needle; luer/luer-lock
Indications for Use (Describe) The Sterile Hypodermic Syringe for Single Use with/without needle is intended to be used for medical purposes to inject fluid into or withdraw fluid from body.
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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Special 510(k) Summary

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Summary	05/12/2021
Preparation Date	

Trade or	Sterile Hypodermic Syringe for Single use, with/without needle; luer/luer-
Proprietary Name	lock
Common Name	Hypodermic Syringe
Classification	Piston Syringe
Name	
Regulation	21 CFR 880.5860
Number	
Product Code	FMF, FMI

	Subject Device Special	Predicate Device 510k	Predicate Device
	510k No	No	Manufacturer
Sterile Hypodermic Syringe for Single use, with/without needle; luer/luer-lock	K210200/S002	K201284	SET MEDIKAL SANAYI VE TICARET ANONIM SIRKETI

Indications for Use:

The Sterile Hypodermic Syringe for Single use with/without needle is intended to be used for medical purposes to inject fluid into or withdraw fluid from body.

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Syringe Size	Gauge	Length	Wall Type	Approval Number
	<mark>21</mark>	<mark>5/8"</mark>	TW	V240200 C
1mL	<mark>23</mark>	<mark>1"</mark>	TW	K210200 Current
	<mark>25</mark>	<mark>1"</mark>	RW	— Submission
	20	1 1/2"	TW	
	21	1 1/2"	TW	
	21	5/8"	TW	
	22	1 1/4"	TW	
2mL	22	1 1/4"	TW	K201284
	23	1"	TW	
	25	1"	RW	
	27	2"	RW	
	27	1 1/2"	RW	
	21	1 1/2"	TW	
	21	5/8"	TW	
	22	1 1/2"	TW	
	22	1 1/4"	TW	
2,5mL	22	1 1/4"	TW	K201284
	23	1"	TW	
	25	1"	RW	
	27	1 1/2"	RW	
	27	2"	RW	
	21	1 1/2"	TW	
	21	5/8	TW	
	22	1 1/4"	TW	
3mL	22	1 1/2"	TW	K201284
	22	1 1/4"	TW	
	23	1"	TW	
	25	1"	RW	
	18	1 1/2"	TW	
	20	1 1/2"	TW	
	•	1 1/2"	TW	
	21	5/8	TW	
	22	1 1/4"	TW	
	22	1 1/2"	TW	
5mL	າວ	1 1/4"	TW	K201284
	23	1"	TW	
	25	1"	RW	

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Syringe Size	Gauge	Length	Wall Type	Approval Number
	18	1 1/2"	TW	
	20	1 1/2"	TW	
	21	5/8"	TW	
10 ml	21	1 1/2"	TW	K201284
10 1111	22	1 1/4"	TW	K201264
	22	1 1/2"	TW	
	23	1"	TW	
	23	1 1/4"	TW	
	18	1 1/2"	TW	
	20	1 1/2"	TW	
	21	5/8"	TW	
20 ml		1 1/2"	TW	K201284
20 1111	22	1 1/4"	TW	- K201264
		1 1/2"	TW	
	23	1"	TW	
	23	1 1/4"	TW	
	15	1"	TW	
	16	1"	TW	
	18	1 1/2"	TW	
50 ml	19	1 1/2"	TW	K201284
30 1111	20	1 1/2"	TW	N2U1204
	21	5/8"	TW	
		1 1/2"	TW	
	23	1 1/4"	TW	

Piston Syringe: K210200/S002

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ITEM	Legally Marketed Device / Modified Device Predicate Device K201284 Modified Device (Adding New Size, 1ml)				
Product name	Sterile Hypodermic Syringe for Single use, with/without needle; luer/luer-lock	Sterile Hypodermic Syringe for Single use, with/without needle; luer/luer-lock	Same		
Product code	FMF	FMF	Same		
Regulation No.	21 CFR 880.5860	21 CFR 880.5860	Same		
Class	II	II	Same		
Indications for use	The Sterile Hypodermic Syringe for Single Use with/without needle is intended to be used for medical purposes to inject fluid into or withdraw fluid from body.	The Sterile Hypodermic Syringe for Single Use with/without needle is intended to be used for medical purposes to inject fluid into or withdraw fluid from body.	Same		
Configuration	Piston Plunger Barrel	Piston Plunger Barrel	Same		
Sterility condition	EO Sterilized	EO Sterilized	Same		
Environment of use	Prescription use	Prescription use	Same		
Intended users	Medical professionals and trained care givers	Medical professionals and trained care givers	Same		
Single use	Yes	Yes	Same		
Operation mode	The plunger of syringe can be pulled and pushed along inside the barrel, allowing the syringe to take in and expel the fluids through the connector to the patient.	The plunger of syringe can be pulled and pushed along inside the barrel, allowing the syringe to take in and expel the fluids through the connector to the patient.	Same		
Label/labeling	Complied with 21 CFR part 801	Complied with 21 CFR part 801	Same		
Product performance	Complied with ISO 7886-1 ISO 7864 ISO 9626	Complied with ISO 7886-1 ISO 7864 ISO 9626	Same		
Volume	2ml, 2,5ml, 3ml, 5ml, 6ml, 10ml, 12ml, 20ml, 24ml, 50ml	1ml	Difference 1		
Sizes	14G,15G,16G,18G,19G,20G, 21G,22G,23G,24G,25G,26G,27G, 28G,29G,30G	21G, 23G, 25G	Same		
Needle Lengths	4–50 mm	4–50 mm	Same		



Piston Syringe: K210200/S002

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Sterile Hypodermic Syringe for Single use, with/without needle; luer/luer-lock						
ITEM	Legally Marketed Device / Predicate Device K201284 Modified Device (Adding New Size, 1m		Comparison			
Patient contact component and material						
Piston	Isoprene Rubber	Isoprene Rubber	Same			
Barrel	PP	PP	Same			
Plunger	PP/PE	PP/PE	Same			
Needle	PP, SS304	PP, SUS304	Same			
Sterilization						
SAL	10-6	10-6	Same			
Endotoxin Limit	20 EU per device	20 EU per device	Same			

Device Description

1 ml Sterile Hypodermic Syringe is 3-piece design. These 3 pieces are piston, plunger and barrel. The piston is made from isoprene rubber. Barrel is made from polypropylene. Plunger is made from polypropylene and polyethylene combination. Needle is made from stainless steel 304 grade and hub of needle is made from polypropylene. There are with or without needle configurations within this Special 510k submission. There are luer and luer-lock configurations within this special 510k submission. This special 510k submission only covers the 1ml syringe but several needle dimensions including 21Gx5/8", 23Gx1", and 25Gx1". The barrel marking scale interval is 0.1 ml and legible for all configurations covered by this Special 510k submission. Luer and Luer-lock have a 6% conical design. The barrel is transparent. The length (without needle), outside diameter, inner diameter are 99.30/100.2mm, 6.9/6.75 and 4.70/4.70, respectively for luer and luer-lock configurations. Intended users are medical professionals and trained caregivers. It is prescription use only.

It is EtO sterile and a single use device. Packaging combination is maintained from a transparent sterilization film and Tyvek paper appropriate to EtO sterilization.

The plunger of syringe can be pulled and pushed along inside the barrel, allowing the syringe to take in and expel the fluids through the connector to the patient.

The products covered in this special 510k are in compliance with ISO 10993-1 and ISO 7886-1.



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Product Name		Sterile Hypodermic Syringe for Single use, with/without needle; luer/luer lock			
Instructions for use		The Sterile Hypodermic Syringe for Single Use with/without needle is intended to be used for medical purposes to inject fluid into or			
mistractions for use		withdraw fluid from body.			
Volume		1ml			
Barrel Marking Sp	ecs (Scale interval)	0.1ml			
Tip type	Luer	<u> </u>			
пртурс	Luer lock	✓			
Configuration	Barrel, plunger	-			
Comiguration	Piston, plunger, barrel	✓			
Barrel	Transparent	✓			
Transparency	UV Resistant	✓			
Transparency	Opaque	-			
•	onfigurations are mentioned in the	With or without	needle		
hypodermic need	le product description table)	With of Without	. necule		
Nozzle Type		Luer	Luer Lock		
Length (without n	eedle)	99.30	100.2		
Diameter, Outside	2	6.90	6.75		
Diameter, Inner		4.70	4.70		
Plunger Material		PE			
Barrel Material		PP			
Piston Material		Isoprene rubber			
Nozzle Type		Luer, Luer lock, 6% conical, 1,2mm			
Lubricant Compos		Silicone			
Sterility Condition	1	EO sterilized			
Single Use		Yes			
Environment of us	se	Prescription Use			
Intended Users		Medical professionals and trained care givers			
Operation Mode The plunger of syringe can be pulled and pushed along inside the barrel, allowing the syringe to take in and expel the connector to the patient.			lowing the syringe to take in and expel the fluids through the		
Graduation Legibility		Legible			
Endotoxin Limit		20 EU per device			
Biocompatibility		Complied with ISO 10993-4/5/10/11 (Cytotoxicity, Irritation, Sensitization Acute Systemic Toxicity, Hemolytical effect)			
SAL		10 ⁻⁶			
Product Perform	nance	Complied with ISO 7886-1			



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Product Name	Sterile Hypodermic needle for Single use					
Sizes		21G	23G	25G		
Needle Lengths		_∞				
(*): with 15 micron filter		2/8	1,	1,"		
Needle Bond Strength		Min. 44N	Min. 34N	Min. 22N		
Needle Cover Dimensions		∞ ′ ω	∞ ′ ω	8, 31 ×		
Needle Cover Strength	Min. 2N – max. 20N					
Needle Cover Color	Transparent					
Needle Tip Configuration	Back bevel needle					
Configuration	Protective cap, Needle, Adhesives, Needle hub					
Sterility Condition	EO sterilized	EO sterilized				
Single Use	Yes					
Environment of use	Prescription Use					
Intended Users	Medical professionals and trained care givers					
Operation Mode	The plunger of syringe can be pulled and pushed along inside the barrel, allowing the syringe to take in and expel the fluids through the connector to the patient.					
Graduation Legibility	Legible					
Protective Cap Material	PP P					
Adhesive Material	Epoxy resin					
Needle Hub Material	PP P					
Needle Material	PP (hub and cover), SUS304 Stainless Steel					
Product Performance	Complied with ISO 7864, ISO 9626					
Endotoxin Limit	20 EU per device					
Biocompatibility	Complied with ISO 10993-4/5/10/11 (Cytotoxicity, Irritation, Sensitization Acute Systemic Toxicity, Hemolytical effect)					
SAL	10 ⁻⁶					

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Modification Discussion

In this Special 510(k) submission, a new size: 1ml syringe luer/luer lock with or without needle is covered. The intended use, raw material, manufacturing site, sterilization method, sterilization site, packaging material is same with cleared device K201284.

Performance Testing

The sterile, hypodermic syringe described in this summary were tested and demonstrated to be in conformance with the following FDA recognized standards:

- ISO 9626 Second edition: Stainless steel needle tubing for the manufacture of medical devices - Requirements and test methods
- ISO 7886-1 Second edition 2017-05 Sterile hypodermic syringes for single use Part 1: Syringes for manual use
- ISO 7864:2016 Fourth Edition: Sterile hypodermic needles for single use Requirements and test methods
- ISO 10993-4:2017 Biological Evaluation of Medical Devices Part 4: Selection of Tests for Interactions with Blood
- ISO 10993-5:2009 Biological Evaluation of Medical Devices Part 5: Tests for In Vitro Cytotoxicity
- ISO 10993-10:2010 Biological Evaluation of Medical Devices Part 10: Tests for Irritation and Skin Sensitization
- ISO 10993-11:2017 Biological Evaluation of Medical Devices Part 11: Tests for Systemic Toxicity

The sterile, hypodermic needle described in this summary were tested and demonstrated to be in conformance with the following FDA recognized standards:

- ISO 9626 Second edition: Stainless steel needle tubing for the manufacture of medical devices - Requirements and test methods
- ISO 7864:2016 Fourth Edition: Sterile hypodermic needles for single use Requirements and test methods
- ISO 10993-4:2017 Biological Evaluation of Medical Devices Part 4: Selection of Tests for Interactions with Blood



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- ISO 10993-5:2009 Biological Evaluation of Medical Devices Part 5: Tests for In Vitro Cytotoxicity
- ISO 10993-10:2010 Biological Evaluation of Medical Devices Part 10: Tests for Irritation and Skin Sensitization
- ISO 10993-11:2017 Biological Evaluation of Medical Devices Part 11: Tests for Systemic Toxicity

Conclusion

The differences between the cleared (predicate) and the modified device do not raise any new or different questions of safety or effectiveness since modified devices are tested in accordance with ISO 7886-1 standard. The subject devices are substantially equivalent to the predicate devices with respect to the indications for use, target populations, treatment method, and technological characteristics.