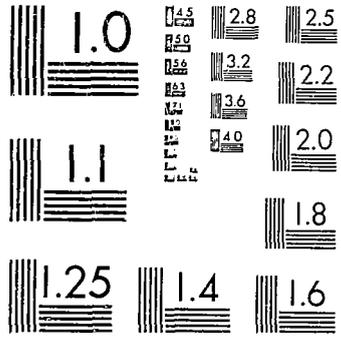
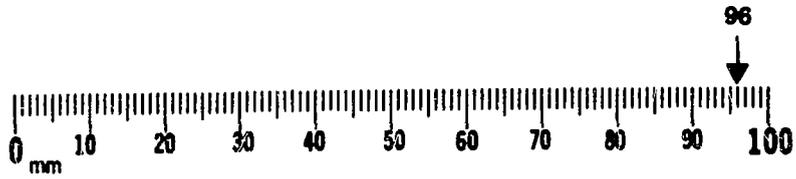
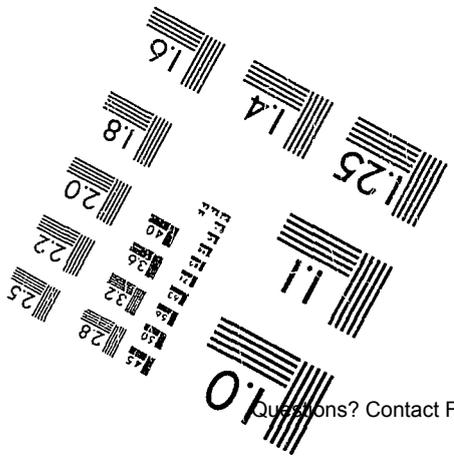


K 7 7 1 2 0 3

80



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A



24X

K771203

December 14, 1978

Ref: 510(k) Notification

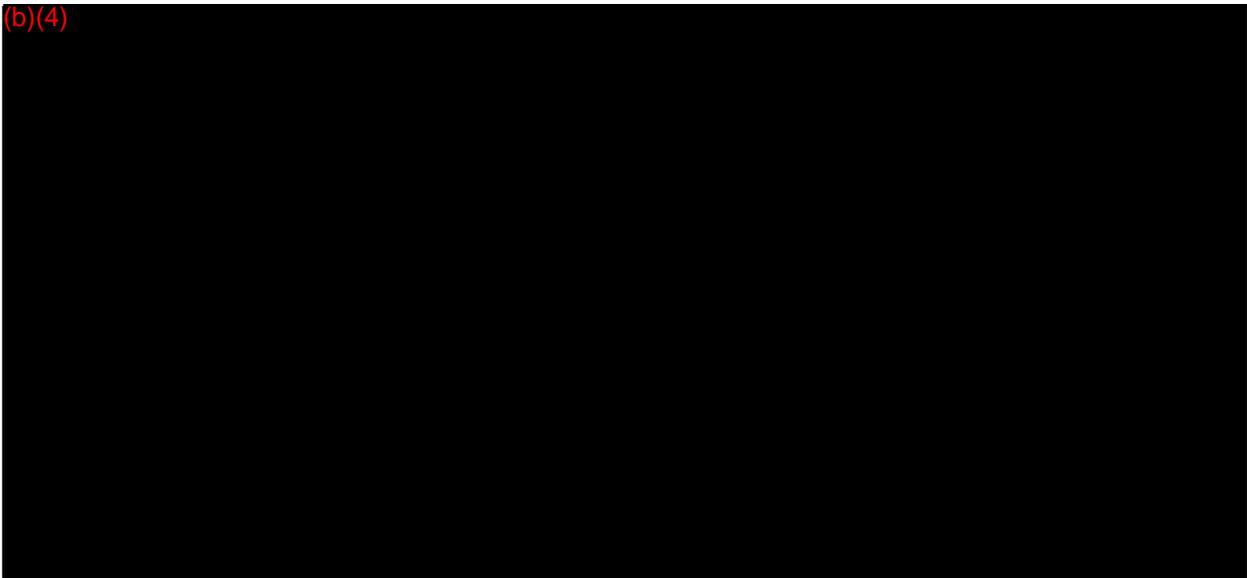
Mr. Fred J. LeVan  
Products Manager  
Terumo America, Inc.  
2811 East Ave Street  
Compton, CA 90221

Dear Mr. LeVan:

This letter will confirm our telephone conversations in September, 1978, in which you stated no trade secret or proprietary information is contained in the following 510(k) submissions, and there is no objection to releasing the contents of the files:

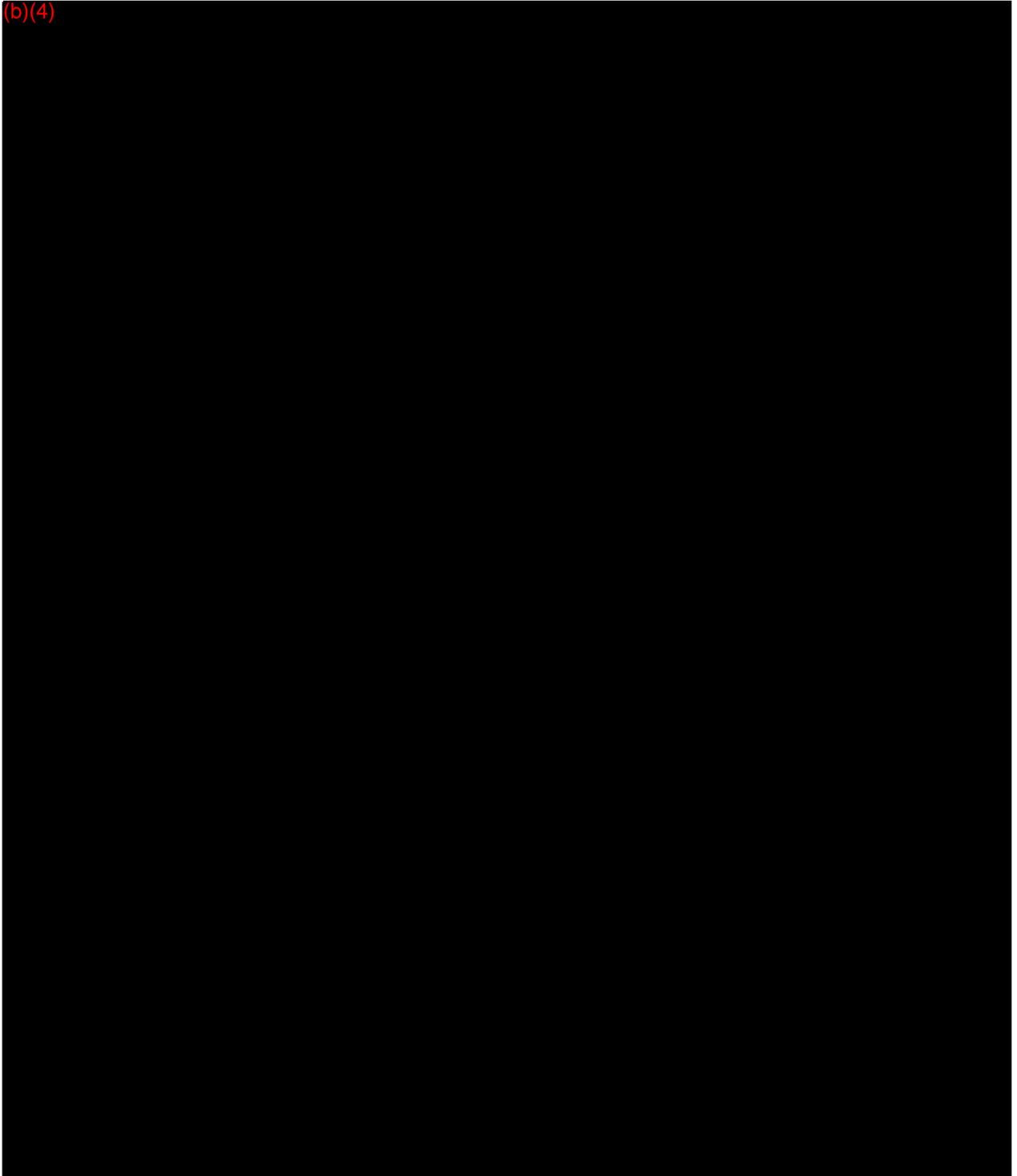
K760775 Teruma Disposable Spinal Needle  
K760948 Terumo Finer Corotesp  
K771203 Teruma Disposable Hypodermic Needle  
K771205 Hypodermic Syringe  
K771210 Urogard Urinary Drainage Bag  
K771211 Doppler (UTD-5 and UTB-5)  
K771454 Micro Syringe and Needle  
K771458 Infusion Accelerator  
K771693 Cilicas Blood Lines Set.

(b)(4)



Page 2 - Mr. Fred LeVan

(b)(4)



Page 3 - Mr. Fred LeVon

(b)(4)

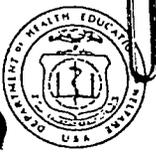


Thank you again, for your assistance in this matter.

Sincerely,

John H. Saralik  
Office of the Assistant Director  
for Regulatory Policy  
Bureau of Medical Devices

cc:HFK-20  
HFK-70 (c/f, 510(k), FOI Re: F78-20,161)  
JHSaralik:ak:12/19/78



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
FOOD AND DRUG ADMINISTRATION  
SILVER SPRING, MARYLAND 20910

JUL 14 1977

Koji Nakao  
Marketing  
Terumo America, Inc.  
2811 East Ana Street  
Compton, California 90221

Ref: K771203  
Terumo Disposable Hypodermic Needle

Dear Mr. Nakao:

Your Section 510(k) notification of intent to market the above device has been reviewed and we have determined the device to be substantially equivalent to one marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments of 1976. You may, therefore, market your device subject to the general controls provisions of the Federal Food, Drug, and Cosmetic Act until such time as your device or the type of device to which it is substantially equivalent has been classified under Section 513. At that time your device would be subject to additional controls if it is classified into either class II (Standards) or class III (Pre-market Approval).

General controls presently relate to annual registration and misbranding and adulteration provisions. In the near future the present general controls will be supplemented by additional regulations relating to current good manufacturing practices, records and reports, and others.

All regulations and information on meetings of the device classification panels, their recommendations, and the final decisions of the Agency will be published in the FEDERAL REGISTER as proposals. You should peruse this publication so that you can convey your views to the Agency if you so desire, and so that you can promptly comply with any additional requirements subsequently imposed on your device. Subscriptions may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Such information also may be reviewed in the Office of the Hearing Clerk, FDA, 5600 Fishers Lane, Rockville, MD 20857.

This letter should not be construed as approval of your device or its labeling. If you desire comment as to the status of the labeling for your device or any additional information pertaining to your responsibilities under the law, please contact the Division of Compliance, Bureau of Medical Devices, 8757 Georgia Avenue, Silver Spring, MD 20910.

Sincerely yours,

David M. Link, Director  
Bureau of Medical Devices



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
FOOD AND DRUG ADMINISTRATION  
SILVER SPRING, MARYLAND 20910

July 6, 1977

Section : 510(k)  
Received: July 5, 1977

Terumo America, Inc.  
2811 East Ana St.  
Compton, CA 90221

Attn: Koji Nakao

The information you have submitted as required by the above referenced Section of the Federal Food, Drug and Cosmetic Act has been received and each device has been assigned a unique document control number as indicated below\*. Please reference these document control numbers in any future correspondence regarding these submissions.

We will notify you when processing has been completed or if any additional information is required. Questions concerning these submissions should be directed to:

Food and Drug Administration  
Bureau of Medical Devices  
Document Control Center (HFK-20)  
8757 Georgia Avenue  
Silver Spring, MD 20910  
(301) 427-7059

Sincerely yours.

*Lisa A. DeMaio*

Lisa A. DeMaio  
Document Control Specialist  
Bureau of Medical Devices

<u>Device*</u>	<u>Document Control No.</u>
Disposable Hypodermic Needle	K771203
Surflo Winged Infusion Set	K771204
Hypodermic Syringe	K771205
AV Fistula Needle Set	K771206
Terufusion Donor Set	K771207
Terufusion Animal Bleeding Set	K771208
Terufusion Blood Administration Set	K771209



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
FOOD AND DRUG ADMINISTRATION  
SILVER SPRING, MARYLAND 20910

Section :  
Received:

The information you have submitted as required by the above referenced Section of the Federal Food, Drug and Cosmetic Act has been received and each device has been assigned a unique document control number as indicated below\*. Please reference these document control numbers in any future correspondence regarding these submissions.

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8757 Georgia Avenue  
Silver Spring, MD 20910  
(301) 427-7059

Sincerely yours.

*Lisa A. DeMaio*

Lisa A. DeMaio  
Document Control Specialist  
Bureau of Medical Devices

Device\*

Document Control No.

Urogard Urinary Drainage Bag  
Doppler (UTD-5 & UTD-6)  
Safed Disposable Plastic Catheter

K771210  
K771211  
K771212

# MEMORANDUM

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
FOOD AND DRUG ADMINISTRATION

TO : Bureau Director  
Through: Robert S. Kennedy, Ph.D.  
Classification Coordinator

DATE: 7/7/77

FROM : Bob Gatling

SUBJECT: 510(K) Notification # K771203

It is my recommendation that the subject 510(K) Notification:

- (A) ~~is~~ substantially equivalent to marketed devices
- (B) Requires premarket approval. NOT substantially equivalent to marketed devices (see data sheet).
- (C) Does NOT require premarket approval. NOT substantially equivalent to marketed devices but safety and effectiveness not a factor in consideration
- (D) Requires more data (see data sheet)
- (E) Is an incomplete submission (see Submission sheet)

Additional Reviewer's Comments

Dev - needle, Hypodermic - 3176

First Review: \_\_\_\_\_  
Classification Coordinator

\_\_\_\_\_  
Date

Final Review: \_\_\_\_\_  
Bureau Director

JUL 14 1977

\_\_\_\_\_  
Date



# TERUMO AMERICA, INC.

2811 East Ana Street, Compton, California 90221 • Telephone (213) 537-3510

June 21, 1977

Registration and Device Listing Staff (HFK-124)  
Division of Compliance  
Bureau of Medical Devices and Diagnostic Products  
Food and Drug Administration  
8757 Georgia Avenue  
Silver Spring, MD 20910

RECEIVED  
FEDERAL BUREAU OF INVESTIGATION  
CENTRAL RECORDS CENTER  
JUN 23 1977

157 71203

Re: 510(k) Notification

**PRIVILEGED INFORMATION**

Gentlemen:

We hereby submit our notification of Terumo disposable hypodermic needles.

1. Proprietary and common name

Proprietary: Terumo Disposable Hypodermic Needle  
Common: Disposable Needle, Hypodermic Needle, Disposable Hypodermic Needle

2. Manufacturer, distributor and importer

Manufactured by Terumo Corporation, Tokyo, Japan (registration #8010026)  
Imported and distributed by Terumo America, Inc., 2811 E. Ana Street,  
Compton, California 90221 (registration #2018734)

3. Description of device and quality standards

Our product specifications (J-2) are enclosed. This is proprietary corporate information and should be considered confidential. Our brochure is also enclosed.

4. Equivalent products

Terumo disposable hypodermic needles were distributed before May 28, 1976 and equivalent products were available before the same date from the following companies:

- B-D, Rutherford, N.J. (brochure enclosed)
- Jelco Laboratories, Raritan, N.J. (brochure enclosed)

We would appreciate your reviewing our application for approval. Please contact us if you have any questions.

Very truly yours,

  
Koji Nakao  
Marketing

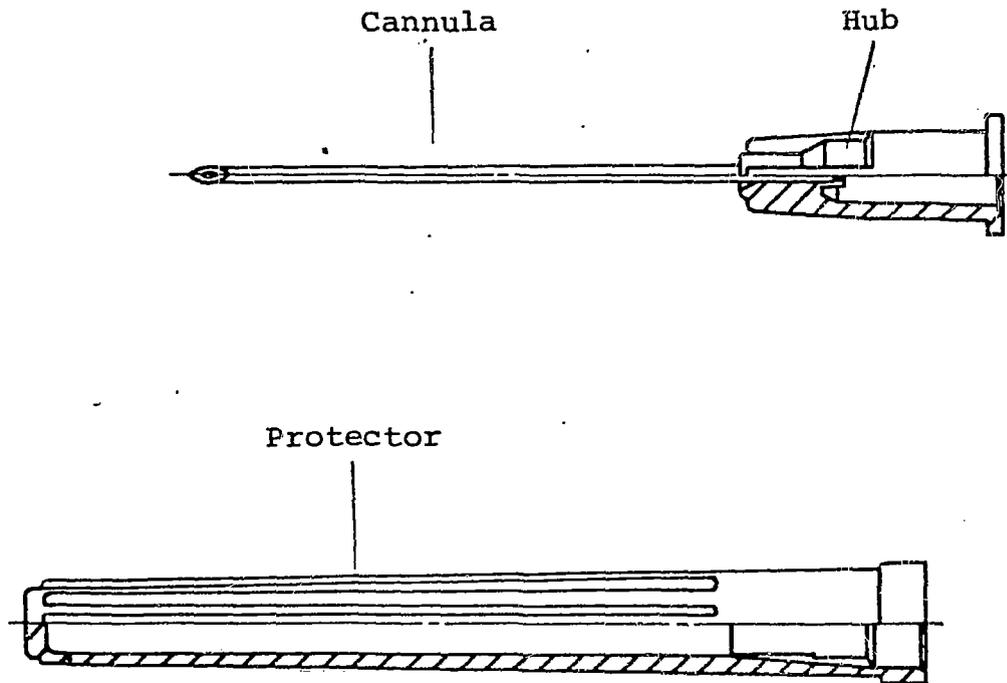
KN:gt  
Enclosures  
cc: International Division

J-2

SPECIFICATION OF  
TERUMO HYPODERMIC NEEDLE

Terumo Corporation

1. Shape and Construction



2. Materials and Composition

Part	Material and Composition
Cannula	Stainless steel tube (specified in ASTM A 632) TP-304, 304L and 321
Hub	Polypropylene
Protector	Polypropylene

J-2-3

3. Specification and Test Method

Conform to "STANDARD FOR DISPOSABLE HYPODERMIC  
NEEDLE" established by Japan Welfare Ministry.

STANDARD FOR DISPOSABLE INJECTION NEEDLE

(Notification No.413 of the Japan Ministry of Health and Welfare ;  
December 28, 1970)

CONTENTS

I Definition

II Quality and Test Methods of Injection Needle

- (1) Outer and Inner Surface
- (2) Dimensions
- (3) Elasticity
- (4) Bending Strength
- (5) Pull-Out Strength
- (6) Extract Test

- a) Appearance and pH
- b) Heavy Metals
- c) Potassium Permanganate-Reductive Substances
- d) Residue on Evaporation

(7) Biological Test

- a) Pyrogen Test
- b) Acute Systemic Toxicity Test

c) Intracutaneous Reactivity Test

(8) Sterility Test

III Packaging

IV Marking

## I. Definition

The disposable injection needle (hereinafter called the injection needle) shall mean a hypodermic injection needle ready for immediate use and disposable after use for once.

## II. Quality and Test Methods of Injection Needle

The injection needle shall be made of SUS 304, 304L and 321 under JIS G 4305 (Cold-Rolled Stainless Steel Plates). The hub, if provided, of other material than aluminum or synthetic resin, shall be nickel- or chrome-plated. The injection needle shall be sterile with steam under pressure, ethylene oxide or  $\gamma$ -ray from cobalt 60.

### (1) Outer and Inner Surfaces

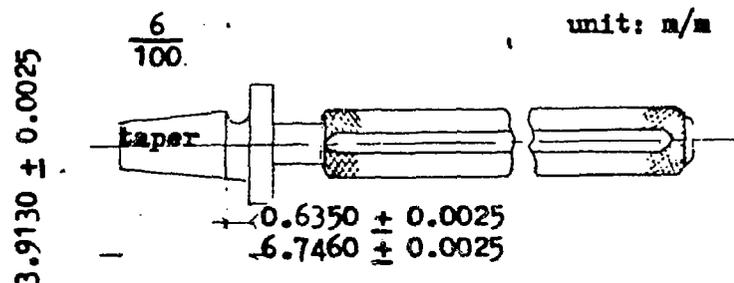
- a) The outer surface of the injection needle shall be free of concavity, convexity and scratches, and be finished smooth.

The entire cannula shall be electropolished or equivalently polished.

- b) The inner surface shall be free of harmful oxides, dirt and cutting dust.
- c) The cannula tip shall be sharp-edged without visual burr.
- d) When glycerin is injected into the cannula (including hub if provided), it shall not be colored.

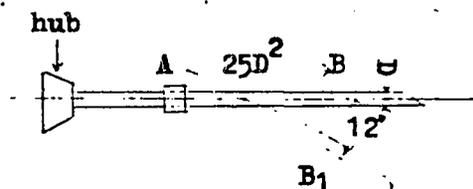
(2) Dimensions

- a) The tolerance of outer diameter of the cannula shall be  $+8\%$  and  $-3\%$  of the outer diameter specified.
- b) The tolerance of nominal length of the cannula shall be  $\pm 8\%$  for the one of less than 20 mm,  $\pm 7\%$  for the one of 20 mm up to 40 mm,  $\pm 5\%$  for the one of 40 mm up to 60 mm and  $\pm 3\%$  for the one over 60 mm.
- c) When a test gauge shown below is inserted in the hole of the hub under a light pressure, the gauge and the hole shall agree in taper, and the tip of the hub shall be within the limit of the gauge.



(3) Elasticity

The cannula of less than 1.0 mm in outer diameter shall be visually restored to its original state when released after bent 12 degrees for 1 minute with any point A fixed and another point B subjected to a bending load.



(4) Bending Strength

When bent 90 degrees along a curvature radius of 5 mm, the cannula of more than 12 mm in length shall not break.

(5) Pull-Out Strength

When loaded with 3 kg (2 kg for cannula of less than 0.6 mm in outer diameter) in the direction to pull the cannula from the hub, the cannula shall not come off.

(6) Extract Test

Seven injection needles with plastic hub are taken and placed in approximately 100 ml of water. The water is then heated at 70°C for 30 minutes and cooled. Subsequently, it is added with more water to an adjusted quantity of exactly 100 ml for use as the test solution. The test solution shall meet the requirements given when tested as below :

a) Appearance and pH

The test solution is colorless, clear and not be foreign substances. Also, to each 20 ml of the test solution and the blank solution, add 1.0 ml of potassium chloride solution containing 0.1 w/v % of potassium chloride in distilled water for injection. The difference of pH between them should not be more than 2.0 when tested by pH determination under the Japanese Pharmacopoeia (hereinafter called Pharmacopoeia).

b) Heavy Metals

Place 10 ml of the test solution in Nessler's tube, test in according to the method 1 of heavy metals limit test under the Pharmacopoeia.

Control solution : Instead of the test solution, use 2.0 ml of standard lead solution, and perform in the same manner.

c) Potassium Permanganate-Reductive Substances

Place 10 ml of the test solution in a glass-stoppered Erlenmeyer flask, add 20 ml of 0.01 N potassium permanganate and 1.0 ml of dilute sulfuric acid, and boil for 3 minutes. After cooling, add 0.10 g of potassium iodide and 5 drops of starch TS, titrate with 0.01 N sodium thiosulfate. Use 20 ml of water instead of the test solution, and perform in the

same manner. The difference of the volume of consumed 0.01 N potassium permanganate is not more than 2.0 ml.

d) Residue on Evaporation

Place 10 ml of the test solution, evaporate to dryness on a water bath, and dry the residue at 105°C for 1 hour. The weight of residue is not more than 1.0 mg.

(7) Biological Tests

One hundred of the injection needles are taken and placed in a glass vessel of about 500 ml in capacity conformable to the alkali extraction test specified in the test procedure for glass containers for injections under the Pharmacopoeia, to which 300 ml of physiological sodium chloride solution is added. The glass container is melt-sealed or sealed with a proper plug and shake well. After 30 minutes of extraction, the contents of the container is shaken well again and is left to cool to the room temperature for use as the test solution. A blank solution is prepared from another physiological sodium chloride solution.

a) Pyrogen Test

The test solution meets the requirements of pyrogen test in according to the Pharmacopoeia.

b) Acute Systemic Toxicity Test

Test animal : Use healthy male mice of inbred strain or closed colony weighing between 17 and 23 g.

Procedure : Inject intravenously to groups of 10 mice 50 ml per kg of each solution of the test and blank.

Observe the animals for 5 drops after injection. During the observation period, all animals treated with the extracts of the sample show no death as in the animal treated with the blank.

c) Intracutaneous Reactivity Test

The test solution meets the requirements, when the test solution are examined under following conditions against the blank solution.

Test animal : Use healthy male rabbits weighing not less than 2.5 kg.

Procedure : Use groups of 2 rabbits for each sample. To a group, inject 0.2 ml of extracts intracutaneously to 10 sites of one side the animals back for the test solution and 5 sites of opposite side for the blank solution.

Observe the injection sites at 72 hours after injection. At the observation time, any tissue reaction such as erythema, edema and necrosis is absent as in the animals treated with the blank.

(8) Sterility Test

When the injection needle unpacked and taken out aseptically are tested by the sterility test under the Pharmacopoeia, they shall meet the requirements given.

III. Packaging

The direct container or packaging of the injection needle shall not have the possibility of tearing or pinhole prior to use, and be resistive enough to the entry of microorganisms.

The injection needle shall be individually packaged.

IV. Marking

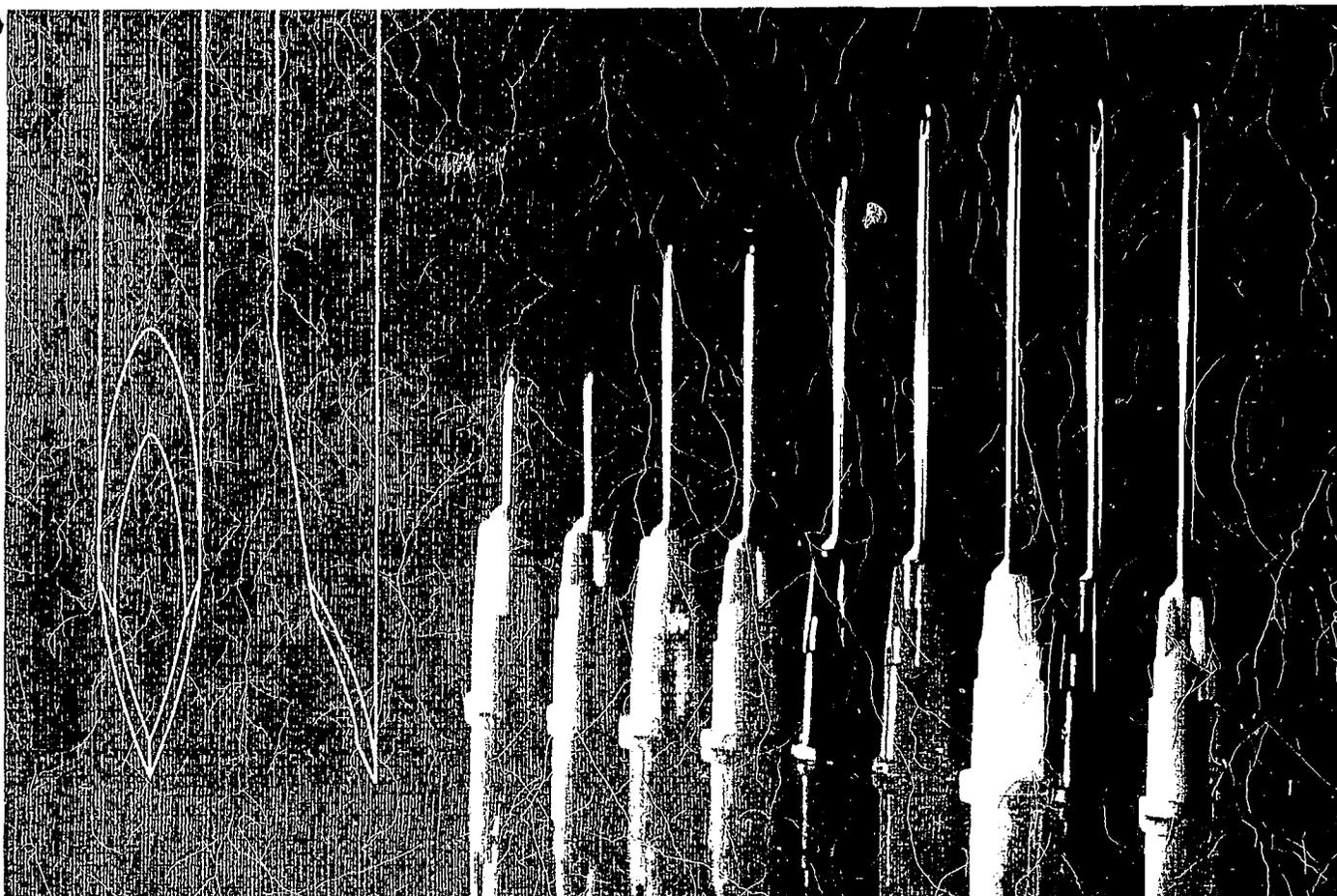
The direct container or packaging or minimum packing unit package of the injection needle shall show the following information :

- (a) Outer diameter and length of cannula
- (b) Sterilization method

(c) Sterilization date, or manufacturing number



# TERUMO DISPOSABLE HYPODERMIC NEEDLE



## WIDE SELECTION

TERUMO<sup>®</sup> HYPODERMIC NEEDLES are available in all standard gauge and bevel sizes to meet every need.

### AVAILABLE NEEDLE SIZES

#### Regular bevel:

Reorder Number	Color Code	Size
NN * 1838T	PINK	18G x 1-1/2" (TW)
NN * 1925T	BROWN	19G x 1" (TW)
NN * 1938T	BROWN	19G x 1-1/2" (TW)
NN * 2025R	YELLOW	20G x 1"
NN * 2032R	YELLOW	20G x 1-1/4"
NN * 2038R	YELLOW	20G x 1-1/2"
NN * 2125R	GREEN	21G x 1"
NN * 2132R	GREEN	21G x 1-1/4"
NN * 2138R	GREEN	21G x 1-1/2"
NN * 2225R	BLACK	22G x 1"
NN * 2232R	BLACK	22G x 1-1/4"
NN * 2238R	BLACK	22G x 1-1/2"
NN * 2325R	LIGHT BLUE	23G x 1"
NN * 2332R	LIGHT BLUE	23G x 1-1/4"
NN * 2516R	BLUE	25G x 5/8"
NN * 2525R	BLUE	25G x 1"
NN * 2613R	BEIGE	26G x 1/2"
NN * 2713R	BEIGE	27G x 1/2"

#### Short bevel:

Reorder Number	Color Code	Size
NN * 1838X	PINK	18G x 1-1/2" (TW)
NN * 1925X	BROWN	19G x 1" (TW)
NN * 1938X	BROWN	19G x 1-1/2" (TW)
NN * 2025S	YELLOW	20G x 1"
NN * 2038S	YELLOW	20G x 1-1/2"
NN * 2125S	GREEN	21G x 1"
NN * 2138S	GREEN	21G x 1-1/2"
NN * 2225S	BLACK	22G x 1"
NN * 2232S	BLACK	22G x 1-1/4"
NN * 2238S	BLACK	22G x 1-1/2"
NN * 2325S	LIGHT BLUE	23G x 1"

#### Special Item:

##### Intradermal bevel:

NN * 2613M	BEIGE	26G x 1/2"
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##### Short bevel:

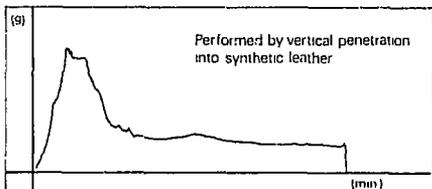
NN * 2613S	BEIGE	26G x 1/2"
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Questions or contact FDA/CDRH/OCE/DID at CDRH-FOISTATUS@fda.hhs.gov or call 301-796-8118.

X

# TERUMO DISPOSABLE HYPODERMIC NEEDLE

## LANCET POINT

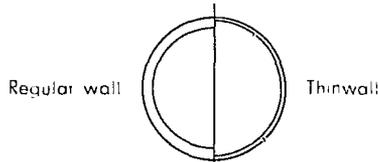


The sharpest, smoothest needle point available is the multi-facet lancet point. The three-dimensional point is precision-ground and honed. The curved heel is blasted to minimize coring and drag.

## THINWALLED AND SILICONIZED

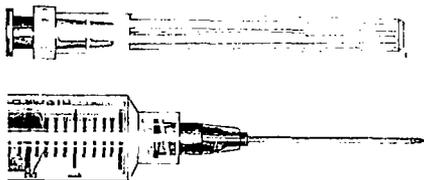
The entire cannula of all TERUMO<sup>®</sup> HYPODERMIC NEEDLES is polished and silicone-bonded to reduce tissue resistance upon insertion and withdrawal. The thinwall reduces the possibility of hemolysis and assures maximum flow rate.

(graphic representation)



## WRENCH-ACTION NEEDLE SHEATH

The needle protector sheath serves as a built-in wrench for easy seating and removal of needles from lock-tip syringes.



## HIGH-IMPACT POLYPROPYLENE HUBS

The polypropylene hubs are designed to fit all luer-tip syringes and are permanently bonded to the cannula and pull-tested to guard against separation.



## PEEL-APART BLISTER PACK

TERUMO<sup>®</sup> HYPODERMIC NEEDLES are sterilized by ethylene oxide gas and tested to ensure against pyrogenicity and toxicity. The peel-apart blister package can be opened by either pop-open procedure or peel-apart technique allowing sterile transfer.



## TOTAL COLOR-CODED SYSTEM

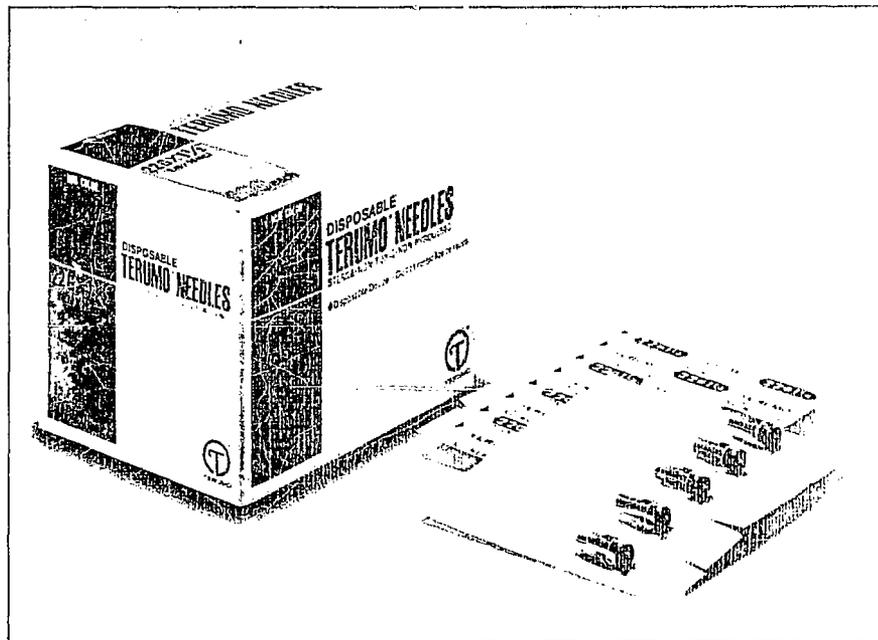
TERUMO<sup>®</sup> HYPODERMIC NEEDLES are color-coded for rapid gauge identification. Hub, blister, and dispenser carton are uniformly color-coded according to international color-code.

## PRECISION MANUFACTURING

TERUMO<sup>®</sup> HYPODERMIC NEEDLES are manufactured under the most rigorous standards of quality control. During each stage of manufacture, needles are tested and inspected to ensure the highest levels of quality and reliability.

## CONVENIENCE OF PACKAGING

Blister packs are conveniently packaged in strips of 5 for easy dispensing 20 strips of 5 (100 needles) per dispenser carton, 20 cartons (2,000 needles) per case. (For other special gauge and bevel sizes, contact TERUMO AMERICA, INC., sales representatives or distributors.)



© TERUMO are Reg. U.S. Pat. & Off.



Manufactured for  
**TERUMO AMERICA, INC.**  
2811 E. Ana St., Compton, CA 90221 213-537-3510

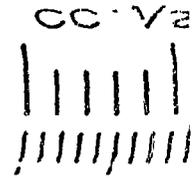
Manufactured by  
**TERUMO CORPORATION**

Questions? Contact FDA/CDRH/OCE/DID, at CDRH-FOISTATUS@fda.hhs.gov or call 301-796-8118.

Tokyo, Japan

© 1977 2 1 5 000 RD Printed in Japan

*YALE Sterile Disposable Needles with MICROLANCE Points are superior to other disposable needles in ease and smoothness of penetration.*



The YALE Sterile Disposable Needle does much to minimize patient discomfort. The MICROLANCE Needle Point is the sharpest. To maintain speed and smoothness throughout an injection, cannulae are siliconized to reduce resistance. Hub is designed to

fit any luer slip or LUER-LOK syringe tip, reusable or disposable. Packaged in strips of five needles of a size with sheath protecting point and cannula. Sterile package is peel-apart for convenience. Each package carries a lot control number.

REORDER NUMBER	DESCRIPTION	REORDER NUMBER	DESCRIPTION	REORDER NUMBER	DESCRIPTION
5105	1000 30G 1/2"	5175	1000 20G 1"		Thin Wall, Regular Bevel
5109	1000 27G 1/2"	5176	1000 20G 1 1/2"	5186	T1000 19G 1"
5110	1000 26G 3/8" (Intradermal Bevel)	5195	1000 18G 1"	5187	T1000 19G 1 1/2"
5111	1000 26G 1/2"	5196	1000 18G 1 1/2"		Thin Wall, Short Bevel
5122	1000 25G 5/8"	5197	1000 16G 1"	5188	T1000S 19G 1"
5124	1000 25G 7/8"	5198	1000 16G 1 1/2"	5189	T1000S 19G 1 1/2"
5127	1000 25G 1 1/2"		Short Bevel		Clear Hub, Regular Bevel
5143	1000 23G 3/4"	5144	1000S 23G 1"	5191	1000 20G 1"
5145	1000 23G 1"	5158	1000S 22G 1"	5192	1000 20G 1 1/2"
5155	1000 22G 1"	5159	1000S 22G 1 1/2"		
5156	1000 22G 1 1/2"	5168	1000S 21G 1"		
5157	1000 22G 1 1/4"	5169	1000S 21G 1 1/2"		
5165	1000 21G 1"	5178	1000S 20G 1"		
5166	1000 21G 1 1/4"	5179	1000S 20G 1 1/2"		
5167	1000 21G 1 1/2"	5199	1000S 18G 1 1/2"		
5129	1000 21G 2"				

	GAUGE ▶	30	27	26	25	23	22	21	20	20	19	18	16
	COLOR ▶	BEIGE	GREY	TAN	BLUE	TR'QSE	BLACK	GREEN	YELLOW	CLEAR	BROWN	PINK	PURPLE
LENGTH	3/8"			I.B.									
	1/2"												
	5/8"												
	3/4"												
	7/8"												
	1"										T.W.		
	1 1/4"										T.W.		
	1 1/2"										T.W.		
	2"												

REGULAR BEVEL    
  SHORT BEVEL    
 T.W. THIN WALL    
 I.B. INTRADERMAL BEVEL

DISPOSABLE HYPODERMIC EQUIPMENT

**E** Bandages

**B** Reusable Hypodermic Equipment

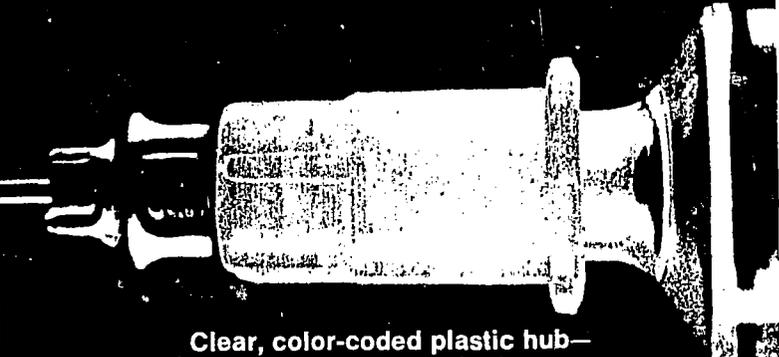
**C**

**D** Fever Thermometers

# Disposable Hypodermic Needles SHARP I

Records processed under FOIA Request #2015-7885; Released by CDRH on 01-26-2016.

## Transparent Plastic Hub



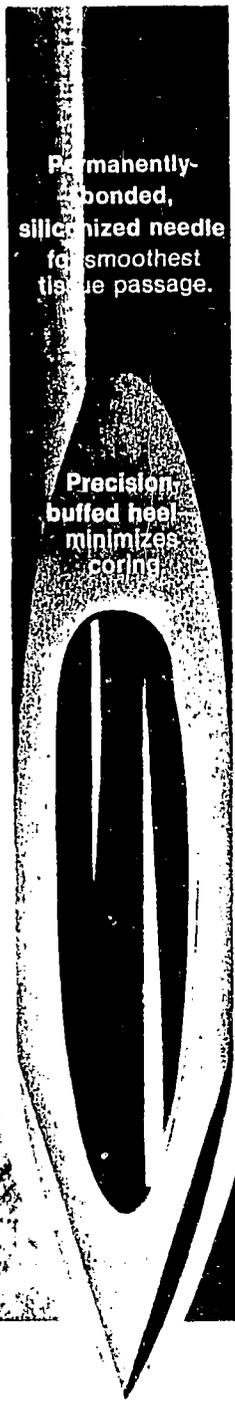
Clear, color-coded plastic hub—transparent plastic hub also acts as a visible "flash-back" indicator.

Pop open technique possible—should the situation demand it.

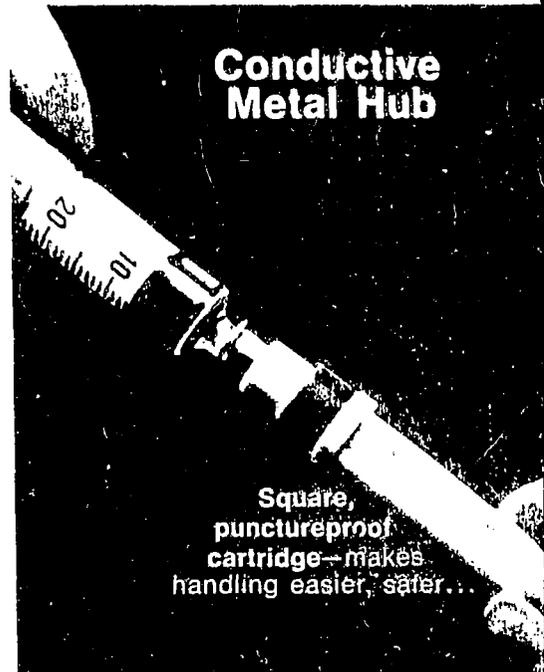


Permanently-bonded, silicized needle for smoothest tissue passage.

Precision-buffed heel minimizes coring.

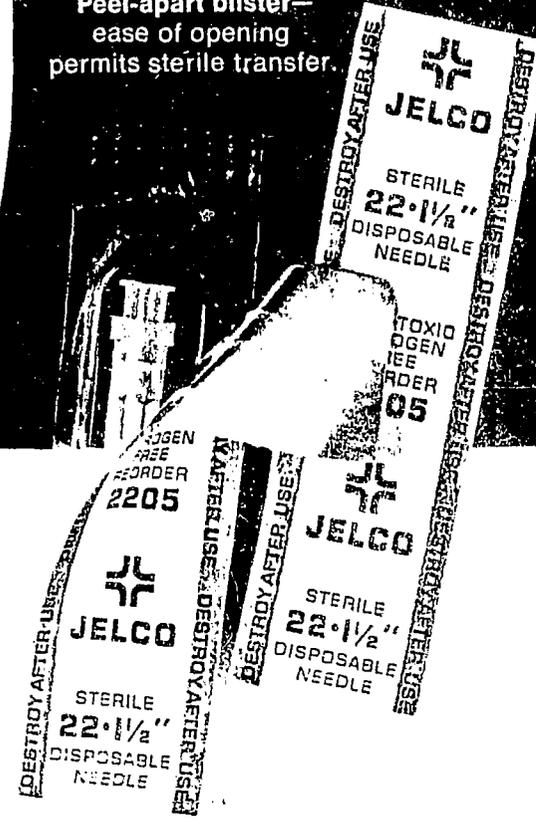


## Conductive Metal Hub



Square, punctureproof cartridge—makes handling easier, safer.

Peel-apart blister—ease of opening permits sterile transfer.



Unique point geometry—incises rather than punctures the skin, for virtually painless penetration.

Hermetically-sealed—protects against airborne and liquid contaminants.

Tamperproof—packages cannot be resealed

Guaranteed sterile—positive sterilization by gamma radiation.

Rigid plastic—resists puncturing, protects needle and user.

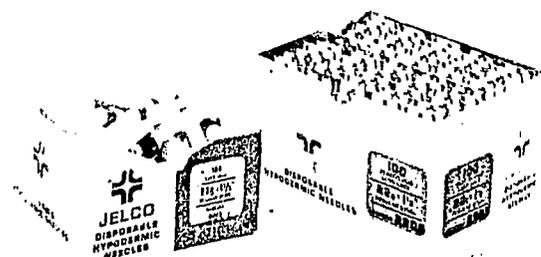
Questions? Contact FDA/CDRH/OCE/DID at CDRH-FOI STATUS@fda.hhs.gov or call 301-796-8118.

# JELCO SHARP Disposable Hypodermic Needles

Records processed under FOIA Request #2015-7185. Released by CDRH on 01-25-2016.

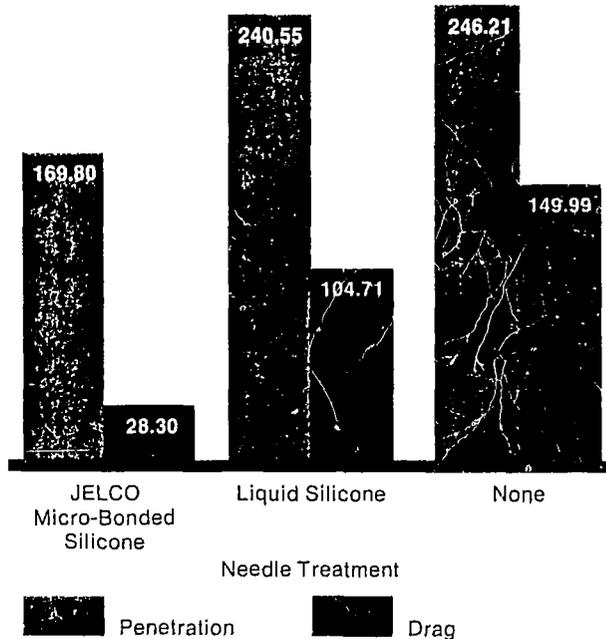
Color Code	REORDER NUMBER		Needle Size	Bevel Style	Packaged
	Metal Hub	Plastic Hub			
Yellow	2012	2212	27 x 1/2"	Regular	1000 per case 100 per box
Tan	2001	2201	26 x 1/2"		
	2002	2202	25 x 5/8"		
Orange	2003	2203	23 x 1"		
Blue	2004	2204	22 x 1"		
Blue	2005	2205	22 x 1 1/2"		
Lavender	2006	2206	21 x 1"		
Lavender	2007	2207	21 x 1 1/2"		
Pink	2008	2208	20 x 1"		
Pink	2009	2209	20 x 1 1/2"		
Light Green	2014	2214	19 x 1" (TW)		
Light Green	2010	2210	19 x 1 1/2" (TW)	Short	
	2011	2211	18 x 1 1/2"		
Blue	2020	2220	22 x 1"		
Blue	2021	2221	22 x 1 1/2"		
Lavender	2022	2222	21 x 1"		
Lavender	2023	2223	21 x 1 1/2"		
Pink	2024	2224	20 x 1"		
Pink	2025	2225	20 x 1 1/2"		
Light Green	2026	2226	19 x 1 1/2" (TW)		
	2027	2227	18 x 1 1/2"		
Tan	2030	2230	26 x 3/8"	Intradermal	

- For Positive, Predictable Performance...
- Safe Use... Safe Disposal
- Scalpel-Sharp Jelco "J" Point
- Triple-beveled for ultra-sharp leading edges... effortless, virtually painless penetration... curved inner edge (heel) is precision-buffed to avoid coring...
- Exclusive micro-bonded silicone process gives cannula permanent lubricity... virtually cancels drag on insertion and withdrawal.



JELCO Disposable Needles are compactly-packaged, minimize storage space and waste disposal problems. The packages convert to convenient dispensing trays.

Instron Data  
Force in grams, through standard diaphragm



**JELCO LABORATORIES**  
RARITAN, N. J. 08869