LIPIODOL® RESISTANT Syringes

Ethyl ester of iodized fatty acids of poppy seed oil



LIPIODOL® RESISTANT syringes







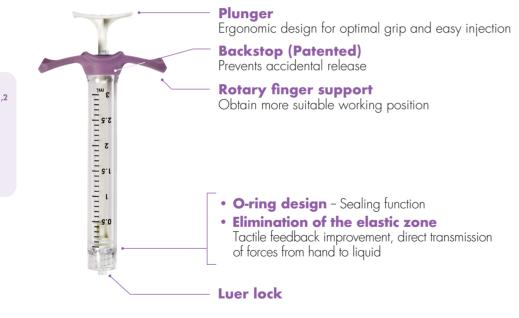
- 1. Internal Test Report E17-41 (2017)
- 2. Internal Test Report E20-13 (2020)

LIPIODOL[®] RESISTANT 1 ml & 3 ml Syringes

Lipiodol® resistance



- ✓ Lipiodol® 24H resistance 1,2
- **✓** Prevent leakage ²
- **✓** Pressure resistance ²
- **✓** Ergonomic design



- 1. Internal Test Report E17-41 (2017)
- 2. Internal Test Report E20-13 (2020)



Lipiodol® resistance



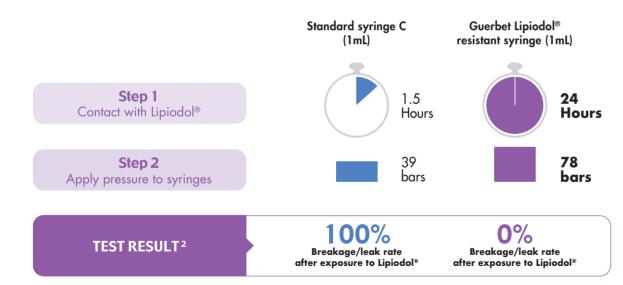


- 1. Internal Test Report E17-41 (2017)
- 2. Internal Test Report E20-13 (2020)

Performance of LIPIODOL® RESISTANT 1 ml Syringe Pressure resistance test



Breakage/leak rate test - Lipiodol® resistant 1 mL syringes VS standard syringes

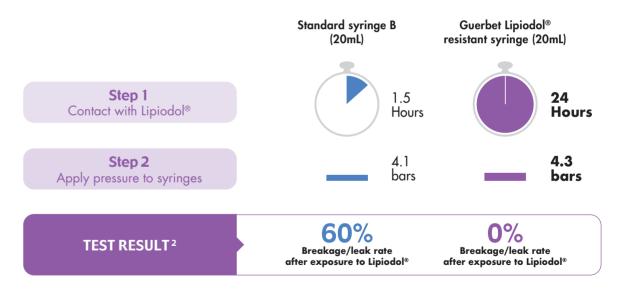


2. Internal Test Report E20-13 (2020)





③ Breakage/leak rate test − Lipiodol® resistant 20 mL syringes VS standard syringes



LIPIODOL® RESISTANT SYRINGES CAN RESIST HIGHER PRESSURE THAN STANDARD SYRINGES AFTER EXPOSURE TO LIPIODOL®



Performance of LIPIODOL® RESISTANT Syringes

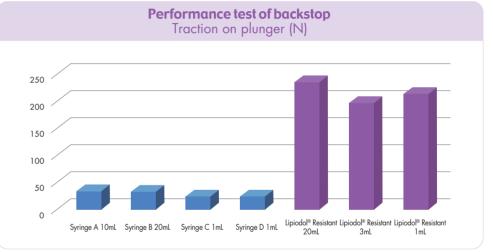
Prevent liquid exposure

- Anti-ejection design in Lipiodol® resistant syringes
 - The backstop in Lipiodol® resistant syringes (1mL/3mL/20mL) avoids the exposure & ejection of plunger from the syringes



Guerbet Lipiodol® resistant syringes (1mL/3mL/20mL)





TEST RESULT²

Backstops make Guerbet Lipiodol $^{\circ}$ resistant syringes holding around **200 N** of traction. The standard syringes can just hold less than **35 N**.

GUERBET LIPIODOL® RESISTANT SYRINGES CAN REDUCE THE RISK OF LIQUID EXPOSURE & PLUNGER EJECTION

2. Internal Test Report E20-13 (2020)

LIPIODOL Specifications Maintained



• Lipiodol® standard production specifications: Absorbance: 420nm: ≤0.60 ; 460nm: ≤0.50 Acid value: ≤1.0mg KOH/g

Lipiodol® batch #	Time of contact	Absorbance 420nm (<0.60) 460nm(<0.50)		Acid value (≤1.0mg KOH/g)
Lipiodol® batch 15LF604A	24H	0.25	0.14	0.7
Lipiodol® batch 16LU604A		0.19	0.10	0.5
Lipiodol® batch 14LU607A		0.28	0.17	0.6

TEST RESULT³

Lipiodol® remains under its specification limits after 24H of contact with Guerbet Lipiodol® resistant syringes.



Features Benefits ► Lipiodol® • **Safety** – Closed system to reduce risks of leakage² Resistant • **Swiftness** – No devices break & no devices change LIPIODOL° RESISTANT & Unbreakable **► Ergonomic** • Safety - No syringe pull-back & no liquids projection & User-Friendly Accuracy – Easy-to-handle & sharp Swiftness – Easy-to-inject ✓ Syringe backstop ✓ Rotary finger grip • Convenience – Ready-to-use ✓ Optimized-handling

3.Internal Test Report 2 17 00401-1.0(2017)v 2. Internal Test Report E20-13 (2020)





Apply pressure:

Apply axial controlled pressure on the syringe's plunger to avoid uncontrolled injection and damage to the device.

Injection:

Plunger of 1 mL syringe should not be pushed by both hands

Connection with luer lock:

All Luer connections should be gently hand tightened without over tightening to ensure their security and to prevent damage to the device





- Backstops in Lipiodol® resistant syringes (PATENTED)
- Ergonomics for Lipiodol® resistant syringes (PATENTED)



Lipiodol® resistant syringes are medical devices intended for use by healthcare professionals only.

Intended use: Single use syringe, intended for injecting fluids into the body, manually, during procedures using Lipiodol® Ultra Fluid

For complete information about precautions and optimal usage conditions, we recommend consulting the instruction for use supplied with the device or by your local Guerbet representative(s). For use only in countries with applicable health authority registrations

Class Is/CE GMED 0459

Manufacturer: Medex

References

- 1. Internal Test Report E17-41 (2017)
- 2. Internal Test Report E20-13 (2020)
- 3. Internal Test Report 2_17_00401-1.0(2017)

Check Lipiodol® Ultra Fluid summary of product information at:



