

Basic Data

Percentage of Water-in-Oil emulsion mixed by PIOLAX Emulsion Connector and 3-way-stopcock.\*3

The percentages of W/O (%W/O) in the produced emulsion for 30 min. are shown in Fig. 1.  
The %W/O in PIOLAX Emulsion Connector 1:2 and 1:1 was significantly higher than that of 3-way-stopcock 1:2 and 1:1, respectively.

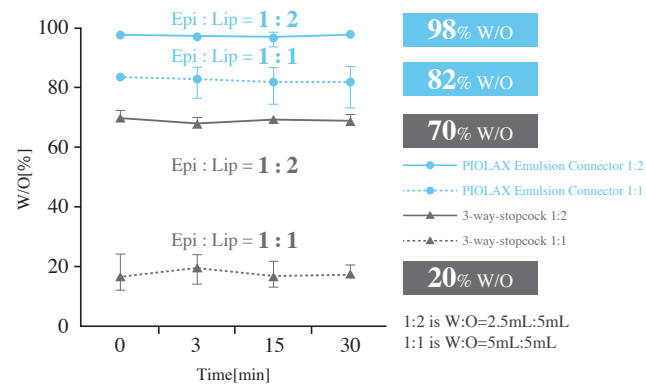


Fig. 1

Drug release profiles between PIOLAX Emulsion Connector and 3-way-stopcock\*4

The cumulative drug release percentage in PIOLAX Emulsion Connector and 3-way-stopcock are shown in Fig. 2.

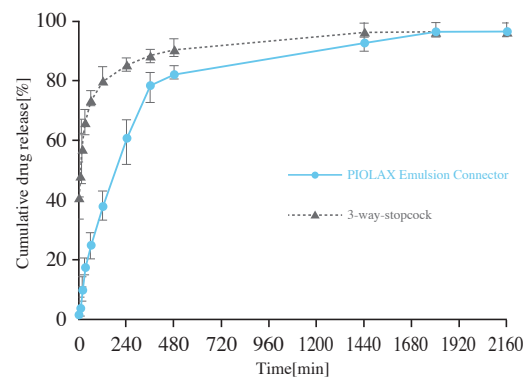


Fig. 2

References  
\*3 Toshihiro Tanaka, Tetsuya Masada, Hideyuki Nishiofuku, et al. Development of pumping emulsification device with glass membrane to form ideal lipiodol emulsion in transarterial chemoembolization. European Radiology. 2018;28:2203-2207  
\*4 Toshihiro Tanaka, Hideyuki Nishiofuku, Tetsuya Masada, et al. Drug Release Property of Lipiodol Emulsion Formed by Glass Membrane Emulsification Device for Transarterial Chemoembolization. Cardiovascular and Interventional Radiology.2020;43(1):135-139

Order information

Catalogue Number	Quantity
MM-100	5 pcs. / box

- Sterilized using Ethylene Oxide
- For single use only and do not re-use
- Consult instruction for use

Made in Japan

PIOLAX MEDICAL DEVICES, INC.

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PIOLAX

Emulsion Connector

Toward standardization of c-TACE



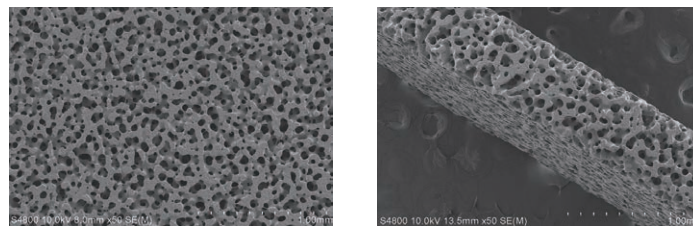
# To form stable Water-in-Oil emulsion by all physicians.

c-TACE\*<sup>1</sup> is widely known as common procedures for TACE\*<sup>2</sup>.  
The method of forming emulsion is various by physician.

The porous glass membrane enables to form "Water-in-Oil emulsion".

## Porous glass membrane with hydrophobic surface

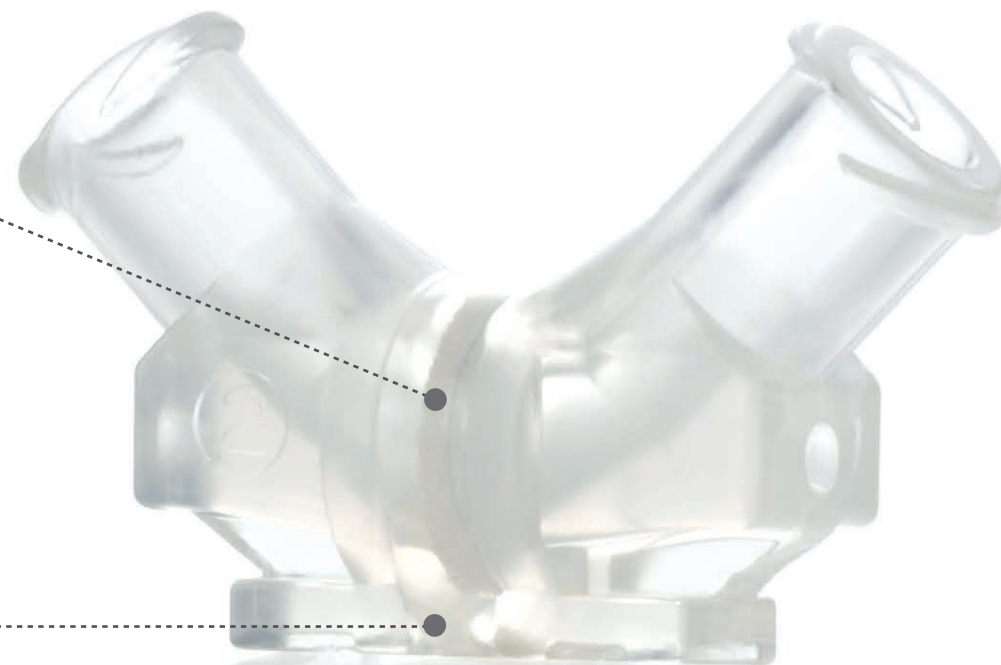
Porous glass membrane forms Water-in-Oil with homogeneous droplet size.



Left/Right: Porous glass membrane surface / Side

## Pedestal for mixing on the clean table

Put PIOLAX Emulsion Connector on the clean table to allow connection of lure slip syringes and mix the medical solution easily.



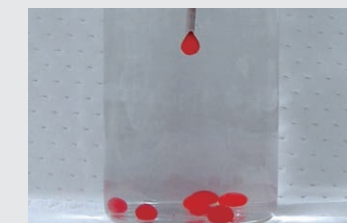
## Homogenization of Emulsion?

The emulsified condition mixed Liquid oil and Aqueous solution forms "Water-in-Oil emulsion" and "Oil-in-Water emulsion" depending on mixing method.

## Mixing emulsion by



3-way-stopcock



PIOLAX Emulsion Connector



Annotation

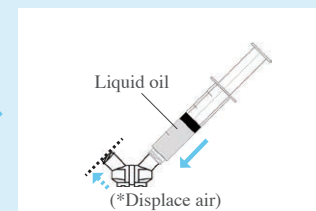
\*1 c-TACE: conventional Transcatheter arterial chemoembolization

\*2 TACE: Transcatheter arterial chemoembolization

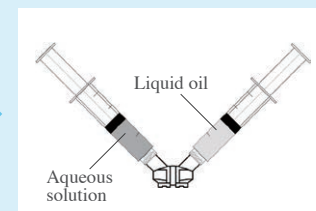
## Usage method



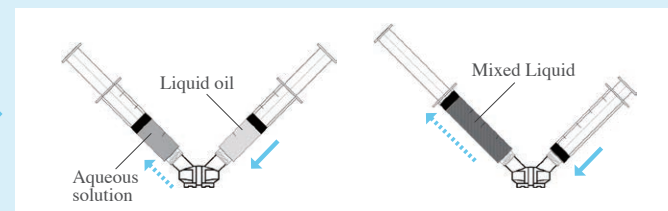
1. First, connect the syringe loaded with the liquid oil to the product.



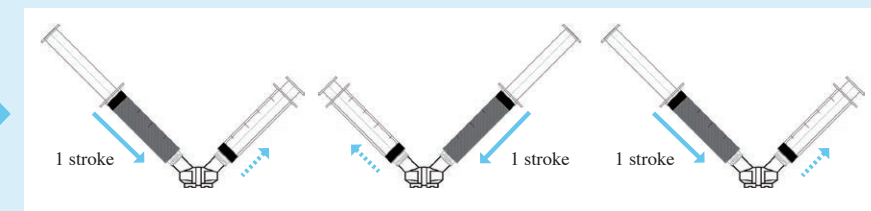
2. Slowly inject the liquid oil to displace air from the dead space in the product so that the dead space is filled with the liquid oil.



3. Connect the syringe loaded with the aqueous solution to the product.



4. Inject all the liquid oil into the syringe loaded with the aqueous solution.



5. Push syringe plungers more than 40 full strokes to form a stable Water-in-Oil emulsion.  
(\*Repeat more than 40 full strokes.)



Check the video for usage method