



<http://www.unisis.co.jp>

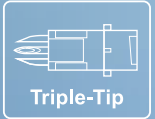
**UNIEVER<sup>®</sup>**

Uniever is a brand name of Unisis Corp.

## DISPOSABLE ATRAUMATIC MICRONEEDLE (TRIPLE TIP TYPE)



# DISPOSABLE ATRAUMATIC MICRONEEDLE (TRIPLE TIP TYPE)



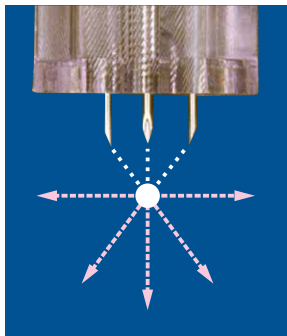
It is an atraumatic microneedle that achieves less pain and enables easy needle insertion.

Atraumatic microneedle (Triple tip type) consisting of three very fine needles can achieve constant needle-insertion depth regardless of doctor's injection skill and it also enables safe needle insertion.

## Features

### Advantage of triple tip type needle

When atraumatic microneedle is viewed from the front, three fine needles are arranged at equal intervals on the circumference. So it is possible to diffuse the injected drug solution over a wide range and reduce the number of punctures. And since all three ultrafine needles are facing outward, the injected drug solution gathers in the center once then spreads out. It is possible that drug solution works efficiently so that it is injected stable in a wide range. Also, it enables vertical puncture easily, so it is possible to prevent variations in puncture depth due to doctor's skill.

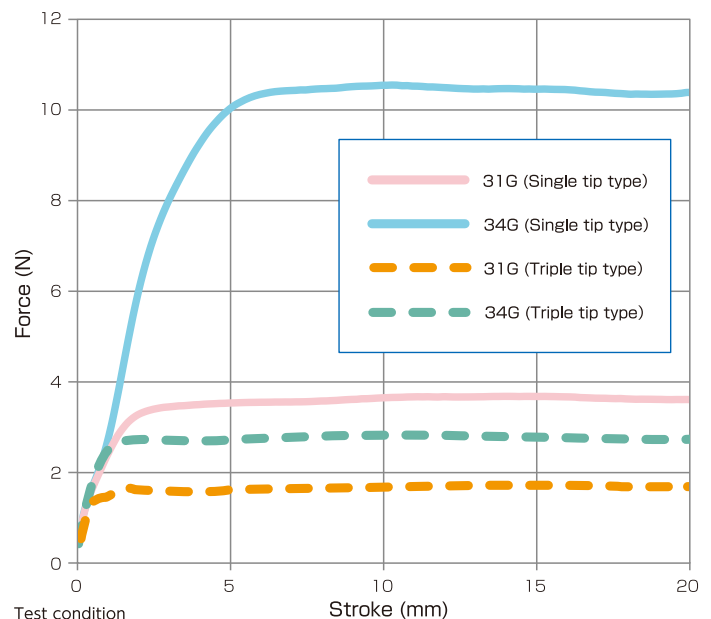


Spread of drug solution

	Sectional area	Area ratio
Sectional area of microneedle (Single tip type) 34G	0.00785mm <sup>2</sup>	1
Sectional area of microneedle (Triple tip type) 34G	0.02355mm <sup>2</sup>	3
Sectional area of microneedle (Triple tip type) 31G	0.06028mm <sup>2</sup>	7.7

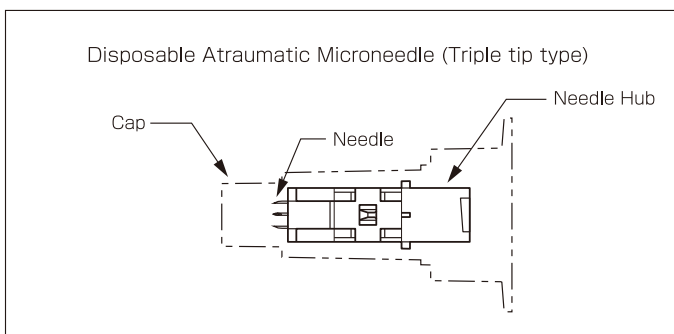
### Reduction of the flow resistance

As atraumatic microneedle consists of three ultrafine needles, the force (flow resistance value) is lower than needle consisting of one ultrafine needle at injecting drug solutions. Even when high viscosity drug solution is injected, it does not cause the clogging, it can cause doctor's smooth operation and reducing burden on doctors and patient's QOL improvement.



Test condition  
Test liquid : Purified water  
Test speed : 200mm/min  
Loadcell : 50N  
The above values are measured values, not guaranteed value.

## Name of parts with sketch



## Standard sizes

Gauge	Length (mm)	REF (Code No.)
31G	1.5	4521361
	2.5	4521461
	3.5	4521561
34G	1.5	4521661
	2.5	4521761
	3.5	4521861

•Individually packed and 10 pcs / box  
•Gamma sterilized

Manufacturer



7th Fl. Mitsui-Sumitomo Bank Okachimachi-Bldg. 4-11-4 Taito, Taito-Ku,  
Tokyo 110-0016, Japan  
(Direct call)International Sales Dept. Phone:+81-3-5812-8832 Facsimile:+81-3-5812-8831

URL <http://www.unisis.co.jp/english/>

Made in Japan

## Representative

Note: Product specifications are subject to change without prior notice due to product improvements, etc. MN180101E