Important product information, read carefully before use.

#3000 Pipet-ID(s)

$C\epsilon$

Manufactured by:
Gynétics Medical Products N.V.
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INTENDED USE

The Pipet-ID(s) is a reusable micropipettor for use with plastic denudation Pipettes with an outer diameter of 0.9 mm.

HOW TO USE

PREPARATION FOR USE

- Before first use, it is recommended to clean the Pipet-ID(s) by wiping with isopropyl alcohol or similar cleaning agents.
- The Pipet-ID(s) is suitable for ultrasonic[1] and autoclave cleaning[2]. Please note: remove the 3 'O'-rings before autoclave process[3].
- If maintenance is carried out properly, there is no restriction on the number of times the Pipet-ID(s) may be reused.

[1]*50°C / 20 Minutes / Rinse with distilled water.*
[2]*Moist Heat / 125°C / 10 Minutes / 0.1 Mpa*
[3]*After ultrasonic or autoclave cycle let dry before use.*

APPLYING A PIPETTE

- Before proceeding, make sure the collet is loosened one turn from the stop **(Off) (See A)**.
- Depress the plunger until the plunger wire appears and is long enough for applying a Pipette.
- Apply the Pipette over the plunger wire and into the collet until it stops against the seals. Push the Pipette through the first resistance until it can no longer be pushed any further **(See A)** i.e. up to the internal stop.
- Turn the collet gently clock wards towards its stop **(On)** in order to fasten the pipette prior to denuding **(See A)**.
  Please note: Do not over-tighten the collet. This may affect the smoothness of the plunger during denudation.

NORMAL USE

- Depress the plunger to an appropriate position for the aspiration and expelling of samples **(See B)**.
- Do not depress the plunger past the black ring because this activates the total expulsion feature of the Pipet-ID(s). **(See D)**.
- Immerse the tip of the Pipette into the sample media while keeping the plunger depressed **(See C)**.
- Slowly release the plunger to aspirate the required amount of medium and sample **(See C)**.
- Expel the sample by completely depressing the plunger until there is no more media left in the Pipette **(See C)** or use the total expulsion feature **(See D)**.

REMOVING A PIPETTE

- Before removing a Pipette, check whether the sample has been expelled safely.
- To expel any residual media in the Pipette, the total expulsion feature can be used **(See D)**.
- Ensure the collet is loosened one turn from the stop **(Off)** before continuing **(See A)**.
- Depress the plunger until there appears at least 10 mm of plunger wire inside the Pipette **(See B)**.
- Hold the Pipette firmly between your fingers and pull it gently out of the collet, using the plunger wire as a guide **(See A)**.

TOTAL EXPULSION FEATURE

- The Pipet-ID(s) has a total expulsion capacity of 1.4 μl on top of the aspiration setting.
- To remove the last remaining sample media from the Pipette, depress the plunger until it cannot be depressed any further, and release **(See D)**.
- The total expulsion feature will be initiated if the black ring is pressed by the plunger. During normal use, the black ring should be avoided unless one deliberately wants to use the total expulsion feature.

ADJUSTING VOLUME

- The Pipet-ID(s) is set so that it can draw up in total 3 μl* of media.
- When you rotate the thumb rest clockwise the setting decreases (anti-clockwise increases).
- The settings are in steps of 0.2 μl*, marked with 3*, 2* and 1 μl* **(See B & E)**.
- To reset the Pipet-ID(s) to the maximum setting, the thumb rest should be turned anti-clockwise until the internal stop is reached **(See B & E)**.

Indication only

MAINTENANCE

REPLACING THE SEALS

The seals need to be replaced if:
- The Pipette fills with media before the plunger is released.
- The Pipette still fills with media even though the collet was fastened.
- The seals look worn.

A replacement kit, including seals and a plunger wire, is supplied with the Pipet-ID(s).

HOW TO REPLACE THE SEALS

- Take the Pipette out of the Pipet-ID(s) **(See A)**.
- Loosen the collet **(See F)**.
- Remove the old seals from the plunger wire, or from the inside of the collet if they are stuck (the blunt end of a used Pipette can be used for this), and discard them.
- Inspect the plunger wire and the inside of the collet, and clean and disinfect, if necessary.
- Slide the seals over the plunger wire in the following order **(See F)**:
  1st Largest red seal.

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2nd Translucent seal, largest hole facing away from the body of the Pipet-ID(s).
3rd Smallest red seal.

- If the seals are applied in any other quantity, order or orientation as described above the Pipet-ID(s) will not function properly.

REPLACING THE PLUNGER WIRE

The plunger wire needs to be replaced if:
- It is not possible anymore to apply a Pipette over the plunger wire.
- The plunger wire is bent or damaged.
- It is not possible anymore to depress the plunger.

INSERTING A NEW PLUNGER WIRE

- Take the Pipette out of the Pipet-ID(s) **(See A)**.
- Loosen the collet **(See F)**.
- Take out the three seals **(See F)**.
- Loosen the broader end of the Pipet-ID(s) body anti-clockwise until it can move over the plunger **(See G 1st step)**.
- Turn the thumb rest anti-clockwise to loosen the mechanism from the body **(See G 2nd step)**.
- Carefully loosen the two grub screws by using the hexagon key, supplied with the Pipet-ID(s), until the plunger wire is released **(See G 3rd step)**.
- Take out the plunger wire **(See G 4th step)**.
- Insert the new plunger wire in the narrow opening in the mechanism and carefully push it in. Make sure that at least 60 mm remains visible.
- Fasten the two grub screws to tightly attach the new plunger wire **(See G 3rd step)**.
- Gently insert the sliding nut back into the body of the Pipet-ID(s) by turning the thumb rest clockwise **(See G 2nd & 1st steps)**.
- Turn the thumb rest clockwise until at least 10 mm of the plunger wire remains visible from the collet providing correct alignment **(See F)**.
- Bring the broader end of the Pipet-ID(s) body clockwise back into place in the 10 mm recess left open at the end of the Pipet-ID(s) **(See G)**.
- Turn the thumb rest anti-clockwise until it stops to reset the aspirate volume setting to its maximum of 3µl **(See E)**.
- Place back the three seals and the collet **(See F)**.
- Test the Pipet-ID(s) to guarantee a smooth movement and repeat steps if necessary.

⚠ CAUTION

- The Pipet-ID(s) should only be used by qualified personnel.
- Introducing the Pipet-ID(s) for routine clinical use should be risk assessed prior to use.
- Before use, make sure the Pipet-ID(s) is properly cleaned and disinfected by wiping with isopropyl alcohol or similar cleaning agents.

TROUBLESHOOTING		
PROBLEM	**POTENTIAL CAUSE**	**SOLUTION**
Pipette does not fit	Incorrect Pipette size used	Only use plastic Pipettes with an outer diameter of 0.9 mm
	Seals not correctly fitted	Follow instructions 'Replacing the seals'
	Plunger not depressed	Follow instructions 'Normal use'
	Plunger wire damaged	Replace plunger wire
	Pipette damaged	Take another Pipette
Reduced control of sample	Pipette not correctly fitted	Follow instructions 'Applying a Pipette'
	Pipette damaged	Take another Pipette
	Seals damaged	Replace seals
	Plunger wire damaged	Replace plunger wire
	Plunger wire loose	Secure plunger wire
	Sample delivery set to zero	Reset sample delivery to 1- 3 µl
	Collet too loose	Fasten collet
Plunger does not depress	Thumb rest tightened to body	Reset sample delivery to 1- 3 µl
	Plunger wire damaged	Replace plunger wire
	Seals damaged	Replace seals
	Plunger wire loose	Secure plunger wire
	Pipette not correctly fitted	Follow instructions 'Applying a Pipette'
Aspiration volume cannot be adjusted	Maximum or minimum reached	Follow instructions 'Adjusting volume'
	Not correctly maintained	Follow instructions 'Replacing the plunger wire'
	Pipet-ID(s) damaged	Contact Gynétics

A

Pipette

Off

Plunger Wire

Collet

Stop

On

B

Black Ring

Thumb Rest

2 1

Plunger

C

Black Ring

D

E

−

Thumb Rest

2 1

Setting

+

F

Collet

Seals

3rd 2nd 1st

G

1st step

2nd step

3rd step

Hexagon Key

Mechanism

Sliding nut

4th step

Plunger Wire

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