User Manual

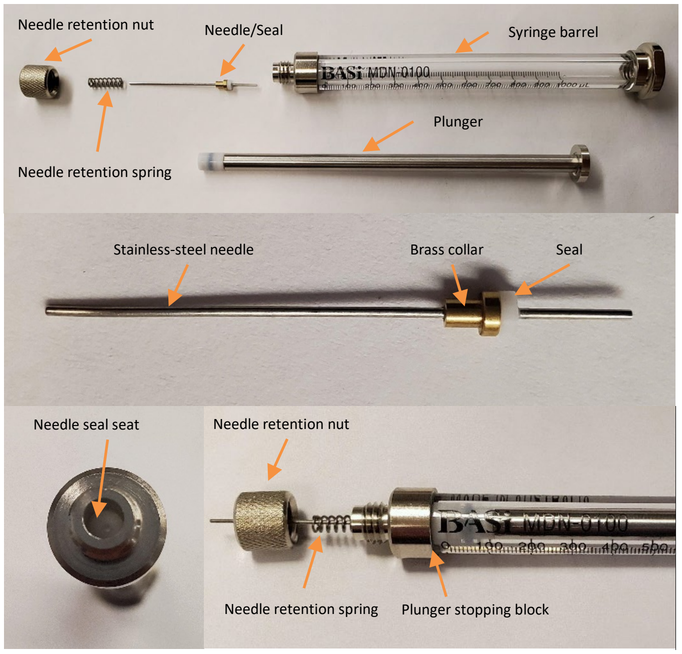
Bee Stinger Syringes

Thank you for purchasing the BASi BeeStinger!
Please take a moment to buzz through the instructions.

MANUFACTURER'S NOTE: This instrument, either wholly or in part, is manufactured for research purposes only. Use for medical diagnosis or treatment in human subjects is not intended, implied, or recommended by the manufacturer. Use for this purpose and accountability for the same rests entirely with the user.

Warning: Before using this syringe remove the plunger from the barrel. Dip plunger into deionized or distilled water and re-insert into glass barrel. Move the plunger up and down five times. Movement of the syringe plunger in a dry barrel may cause excessive wear on the Teflon seat, reducing the lifetime of the seal and causing leaks.

Parts of the Bee Stinger Syringe:



Caring for your Bee Stinger Syringe

Cleaning:
The cleaning agent you use will depend on what type of material is contaminating the syringe. Deionized or distilled water, acetone, methanol and acetonitrile are all recommended cleaning solvents for this syringe. Avoid detergents, phosphates and alkalines whenever possible. Syringes may be soaked overnight in a mild solvent or immersed in an ultrasonic cleaner for a few hours if necessary.

Steps to cleaning your syringe:

1. To flush the syringe remove the plunger and use another syringe or squirt bottle to fill the barrel of the blocked syringe with the appropriate solvent.
2. Reinsert the plunger and gently push solvent through the needle. Do not force the plunger as excess pressure may crack the syringe barrel.
3. Flush thoroughly with the appropriate solvent. Difficult to remove contaminants may take as many as 20 flushes to remove. [overnight soaking or immersion in an ultrasonic instrument bath for a few hours may be required]
4. Rinse with distilled or deionized water
5. Flush with acetone
6. Remove the plunger and wipe with lab tissue.
7. Reinsert plunger and flush with acetone.
8. Allow syringe to dry before storage.

Replacing the Needle/Seal:

Occasionally during course of its lifetime, the needle may become bent, blocked or otherwise damaged [Gravity is unkind to delicate instruments]. If needle replacement is necessary follow the instructions below to install a new replacement needle/seal to get your Bee Stinger back up and running.

1. Clean the syringe as described above to ensure there are no contaminants in the syringe.
2. Unscrew the needle/seal retention nut (be careful not to lose the needle retention spring). In most cases, the old needle/seal should slide out easily by

gently pulling. Do not apply excessive force as this can damage the syringe. Additional cleaning with sonication in an appropriate solvent may be necessary if the needle/seal is stuck due to contaminants (e.g. salt crystals).

3. [Optional] As an added precaution, it may be desirable to perform further cleaning of the syringe with the old/damaged needle/seal removed. Place the syringe, nut, spring and plunger in an ultrasonic instrument bath with an appropriate solvent for your contaminants. This helps ensure the Teflon seal will be optimally seated in the syringe and free of contaminants.
4. Inspect the needle/seal seat in the syringe to make sure it is free of contaminants.

5. Reinsert the plunger into the syringe barrel (be sure to wet it first with water to lubricate the plunger seal). Depress the plunger completely to the Teflon stopping block (the 0uL mark).
6. Insert the new replacement needle/seal. Ensure it has properly seated so the stainless tube is inserted into the Teflon stopping block and the Teflon seal is seated against the Teflon block.
7. Slide the retention spring onto the brass collar of the needle and tighten the retention nut finger-tight.

Warranty

These products are designed solely for preclinical research. BASi warrants its products against manufacturer defects. BASi is liable only to the extent of replacement of defective items for claims registered within 90 days of the shipping date.

BASi will not be liable for any personal injury, property damage, or consequential damages of any kind whatsoever arising from the use of the syringes. The foregoing warranty is in lieu of all other warranties expressed or implied but not limited to the implied warranties of merchantability and fitness for a particular purpose.

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Replacing the Plunger/Seal:

With proper handling, including wetting before use and cleaning before storage, the Teflon plunger seal will last for years of regular use. If the syringe does eventually begin to leak past the plunger seal, the seal has likely worn out. If replacement is necessary, follow the instructions below to install a new replacement plunger/seal to get your Bee Stinger back up and running.

1. Clean the syringe as described above to ensure there are no contaminants in the syringe.
2. The new replacement plunger/seal should be wiped and rinsed with acetone or methanol followed by distilled water rinse to ensure it is completely free of any contaminants.
3. Wet the plunger seal and insert it into the syringe barrel. Move the plunger up and down five times.

Ordering Information

Syringe Part Numbers

MDN-0100	1 mL gas-tight syringe

Replacement Part Numbers

MDN-0100N	Replacement Needle/Seal for 1mL (MDN-0100)
MDN-0100P	Replacement Plunger/Seal for 1mL syringes (MDN-0100)

Accessories

MD-1002	3-syringe Bracket
MD-2400	Sterile Artificial Cerebrospinal Fluid (aCSF)
MD-1510	Tubing Connectors, 20/pkg
MD-1516	Silicone Tubing Connectors, 20/pkg
MF-5164	FEP Teflon Tubing (0.65mm OD x 0.12mm ID, 1 meter)
MF-5366	PEEK Tubing (0.65mm OD x 0.12mm ID, 1 meter, tan)
MD-1511	PEEK Tubing (0.65mm OD x 0.12mm ID, 1 meter, blue)
MD-1512	PEEK Tubing (0.65mm OD x 0.12mm ID, 1 meter, red)

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