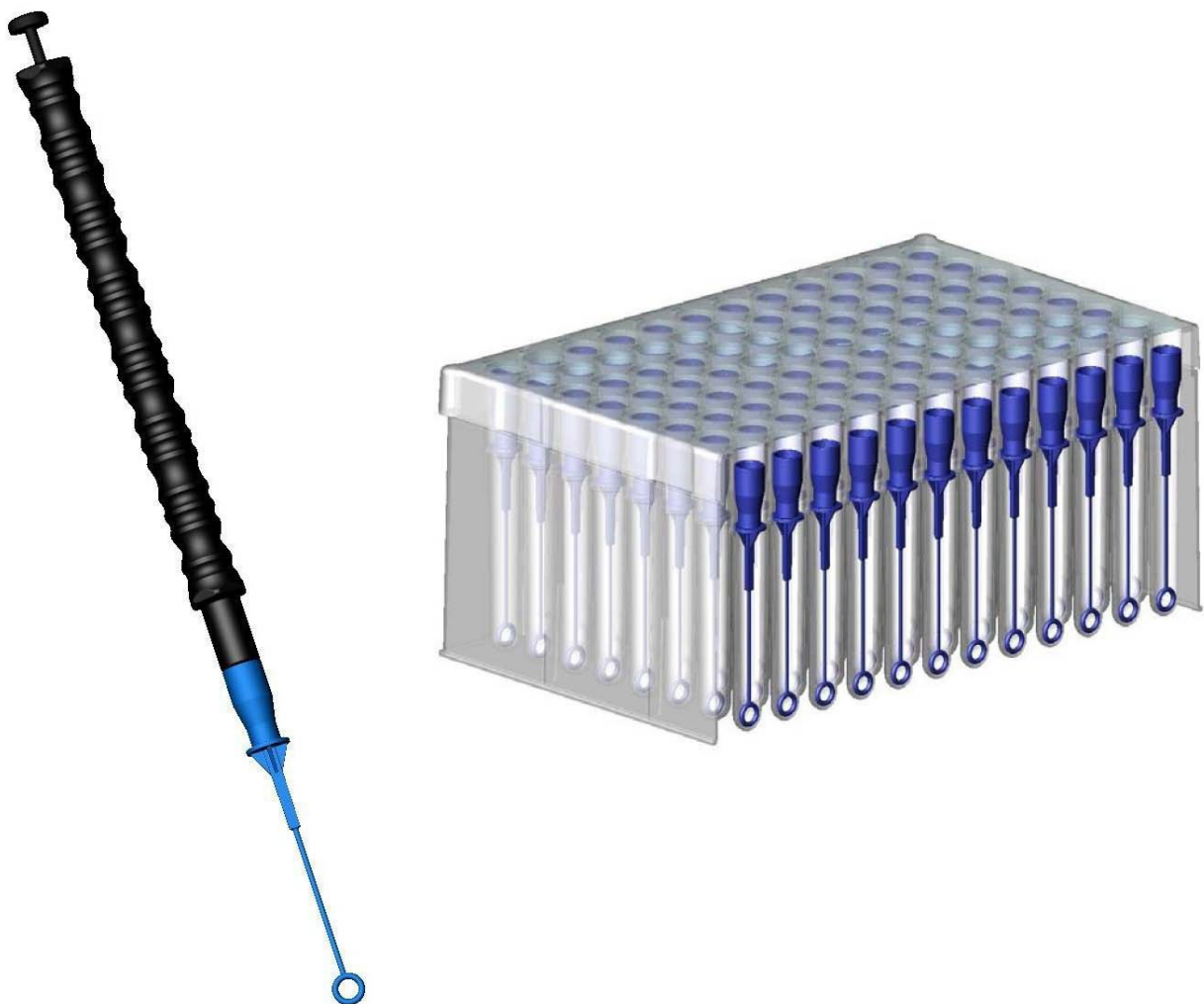




## Bio Plas Astral® Inoculation System



*“The Ultimate In Accuracy. Every Loop Sterile In Its Own Sealed Chamber.”*

**BIO PLAS, INC. A WOMAN OWNED SMALL BUSINESS**

4380 Redwood Hwy, Suite C-16, San Rafael, CA 94903 USA

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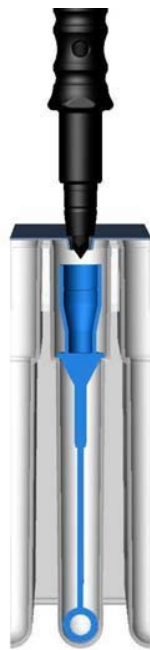
The disposable **Bio Plas Astral® Inoculation System** is color coded and consists of the following; 1 uL yellow Astral Loop, 10 uL blue Astral Loop and white Astral Streaking Needle. During manufacturing, these Astral Loops are inserted into racks which have 96 individual tubular chambers. When the 96 chambers are filled with the Astral Loops they are then hermetically sealed with a thin foil membrane. A dust cover is placed over this 96 chamber rack, heat shrunk and sterilized by electron beam. Additionally all Astral Loops are certified to be free of RNase, DNase, DNA, pyrogens and PCR inhibitors.

The handle is designed to be used with one hand and will easily puncture the membrane attaching itself to the hub of the Astral Loop. It may then be withdrawn from its individual sterile chamber ready to be used for inoculation or streaking. When the inoculation or streaking process is complete, the Astral Loop or Astral Streaking Needle may then be ejected off the Astral Handle.

This easy to use and ruggedly designed Astral Handle may be autoclaved repeatedly, without damage to the handle.

**STEP I**

Tip of the Astral Handle pierces and penetrates sealing film



**STEP II**

Astral Handle locks onto Astral Loop or Astral Streaking Needle



**STEP III**

Astral Handle withdrawing sterile Astral Loop or Astral Streaking Needle



Every case of 10 96-rack package is supplied with a free Astral Handle.

Autoclavable at 250°F at 15 psi for 15 mins

*This illustration shows the three easy, rapid, steps used to extract a sterile 10uL Astral Loop from its sealed chamber.*

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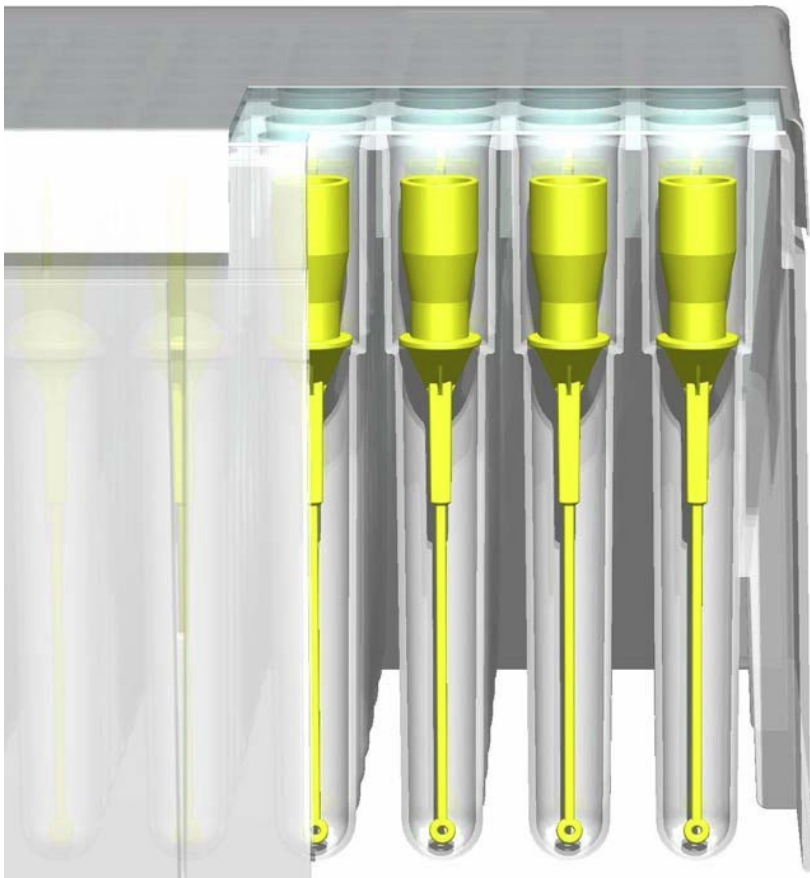
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**Procedures:**

All **Astral Loops** may be used in quantative procedures such as sampling, urine counts, serial dilutions, and bacteriological inoculation.



*1uL Astral Inoculating Loop Catalog Number 7000*

**SAFETY:** Astral Loops eliminate the metal or wire loop flaming step and the hazards of spattering, cross- contamination, and the risk of infectious pathogens caused as a result of aerosols, and the hazards of open flame.

**CONVENIENCE:** All Astral Loops may be quickly extracted from the sterilized rack by using the Astral Handle. These Astral Loops are flexible enough to facilitate streaking but rigid enough to penetrate the media for inoculation.

**TIME SAVINGS:** The **Astral Inoculation System** allows the technologist to inoculate prepared plates at an extremely rapid rate in any laboratory setting or condition, i.e., anaerobic chambers, fume hoods, satellite labs or, in the field.

**ECONOMY:** The savings can be substantial; fewer plated used, guaranteed sterility and cleanliness, zero cross-contamination and speed of use

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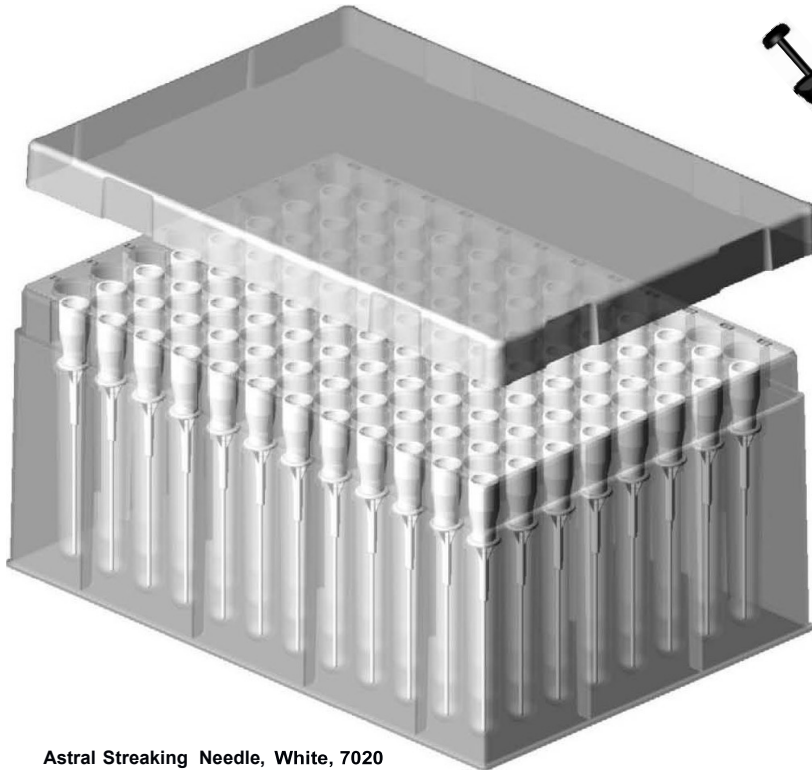
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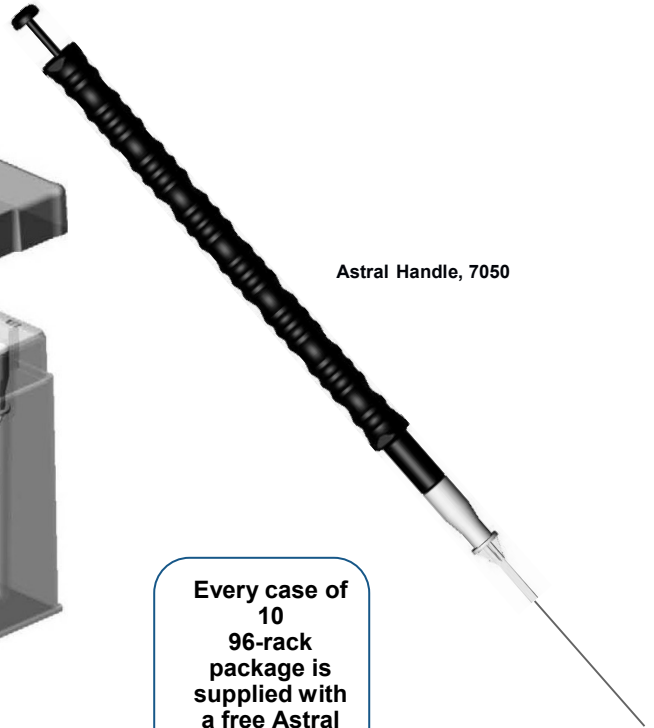
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Astral Streaking Needle, White, 7020



Astral Handle, 7050

Every case of 10 96-rack package is supplied with a free Astral Handle.

Autoclavable at 250°F at 15 psi for 15 mins

Ordering Information			
Catalog #	Description	Pkg. Qty	Pkgs./Case
7000	1uL Astral Inoculation Loop, Yellow	96/Rack	10
7010	10uL Astral Inoculating Loop, Blue	96/Rack	10
7020	Astral Streaking Needle, White	96/Rack	10
7050	Astral Handle	1	1

Minimum Order Is One Case. \*Sold only by the full case to guaranty sterility.

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