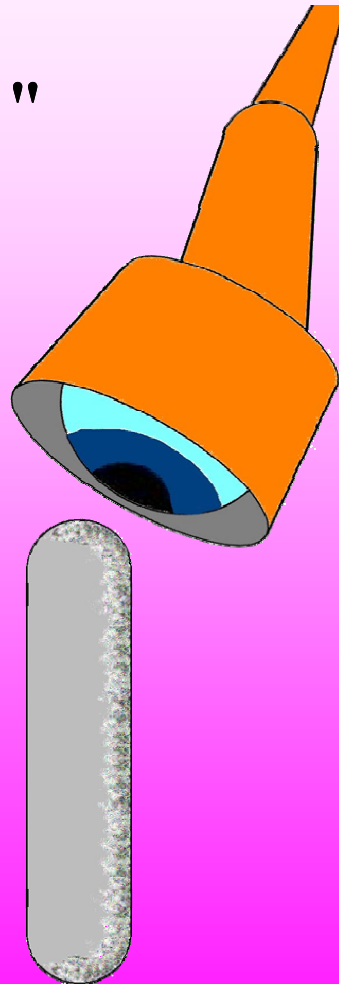


I-125 Seed

A look at the "seed "



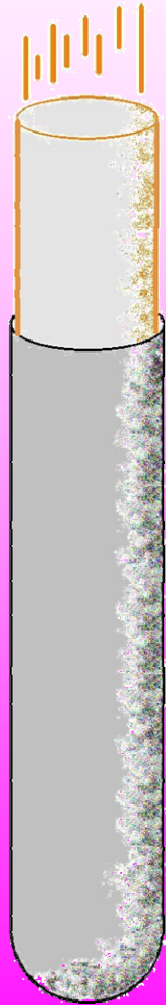
One view and type of "seed" construction and shipment options.

Chemistry

- The radioactive I-125 is adsorbed on a 99.99% pure silver rod measuring 3.0 mm.



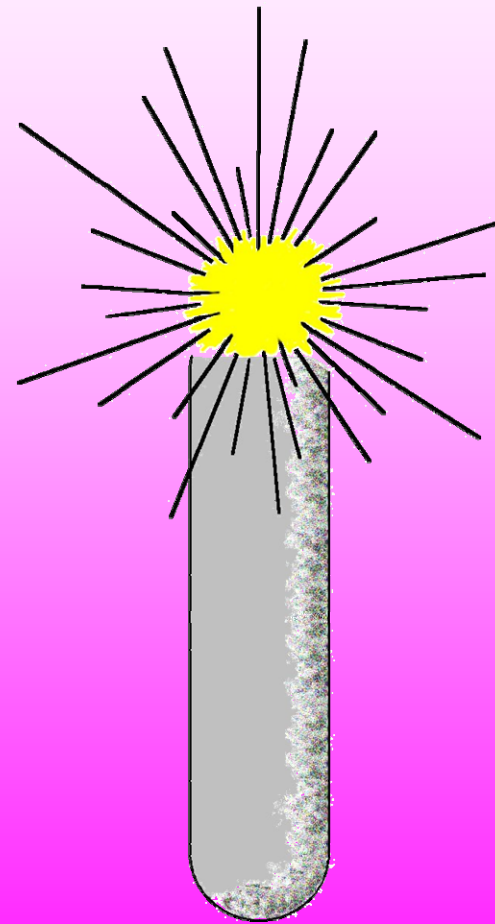
Loading



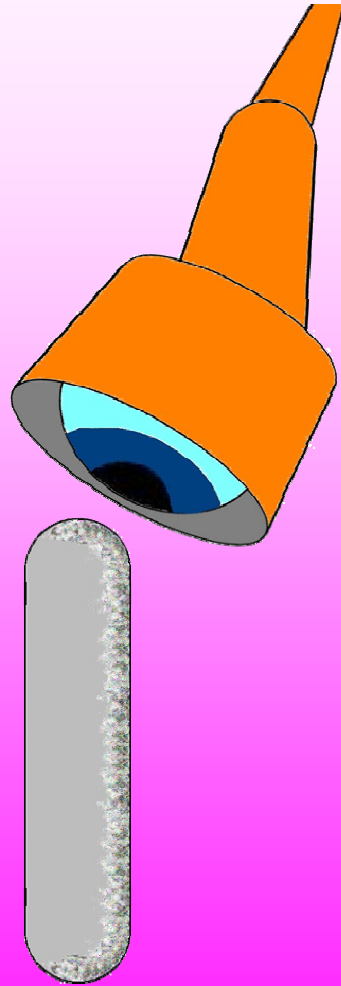
- The “active element” is loaded into a titanium shell

Laser Welding

- Each shell is laser welded



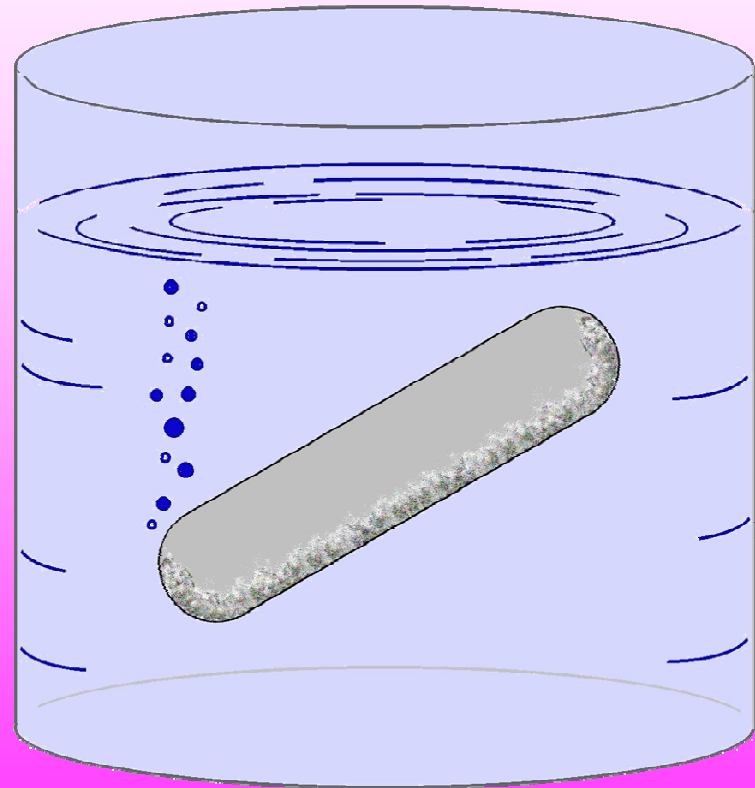
Inspected



- Each seed is then visually inspected

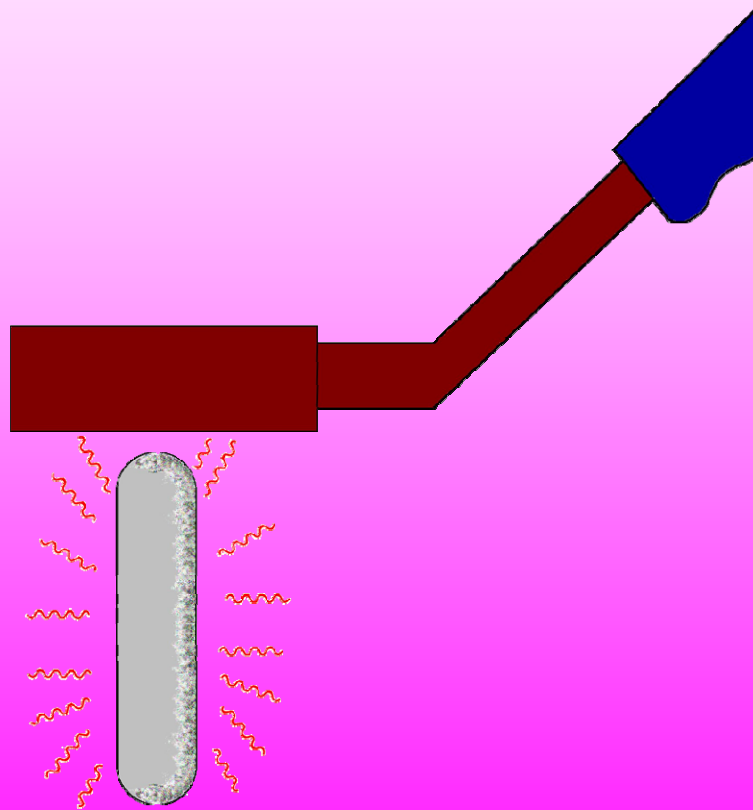
Leak Test

- Each seed must be leak tested



Survey

- Each seed is surveyed and the activity determined.



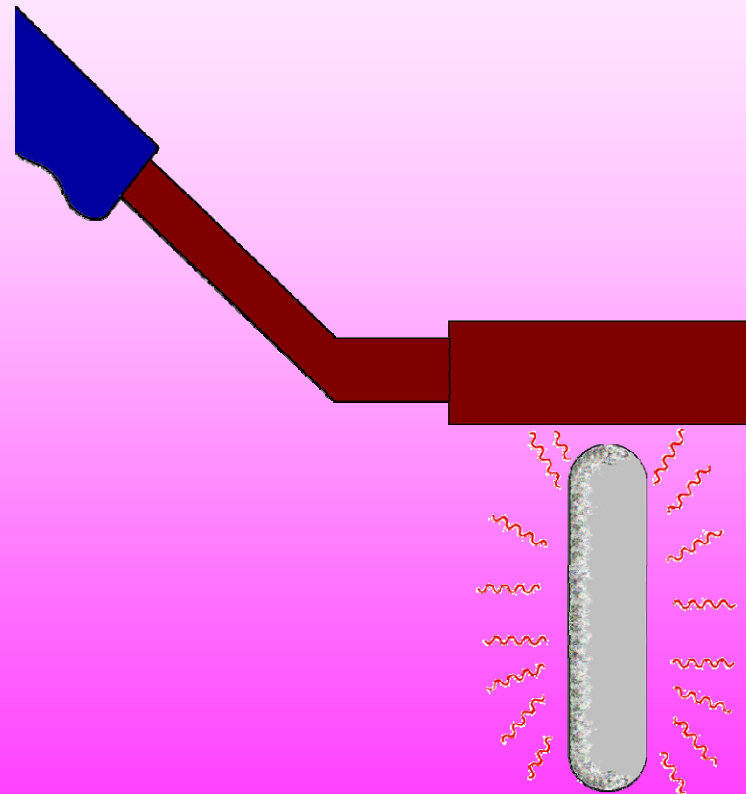
Storage

- Seeds are stored by activity.



Filling an Order

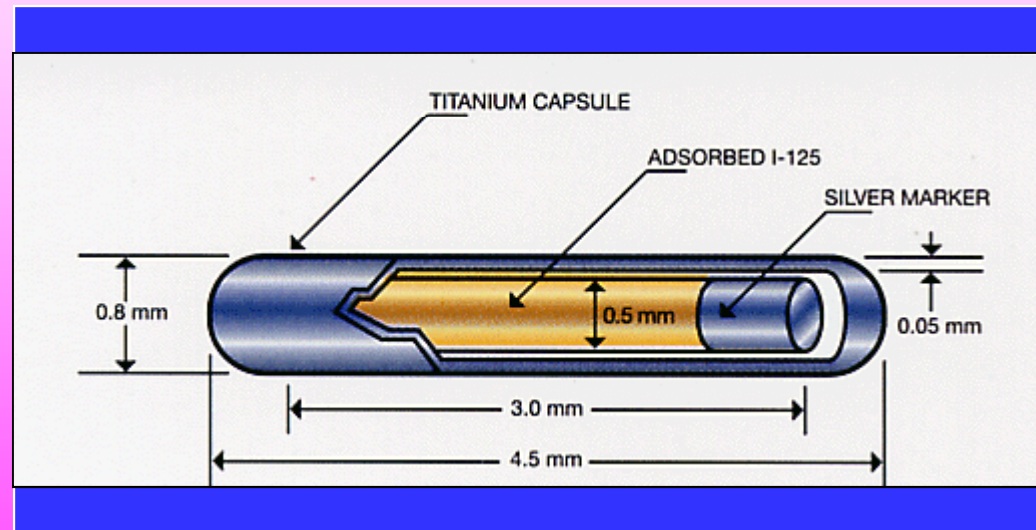
- Each seed is again inspected and a 10% assay of the batch is performed.



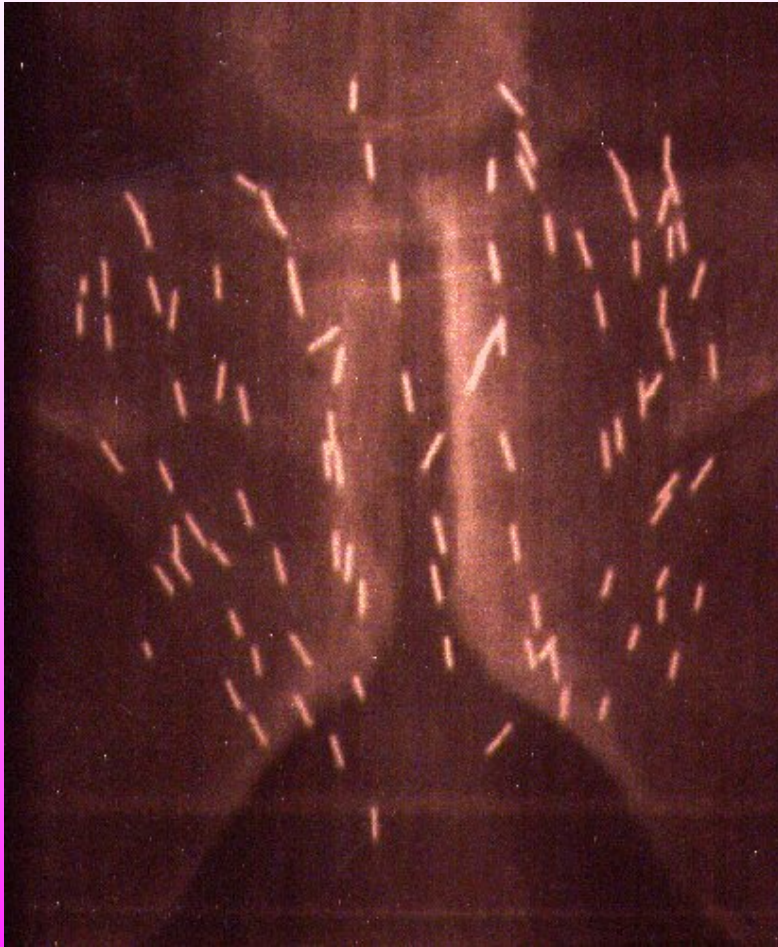
How Many Times is the Seed Inspected?

1. 1st weld after making the shell
2. 2nd weld after making the seed
3. Leak Tested to find micro-fractures
4. During assay of each seed
5. During counting for each order

Seed Construction



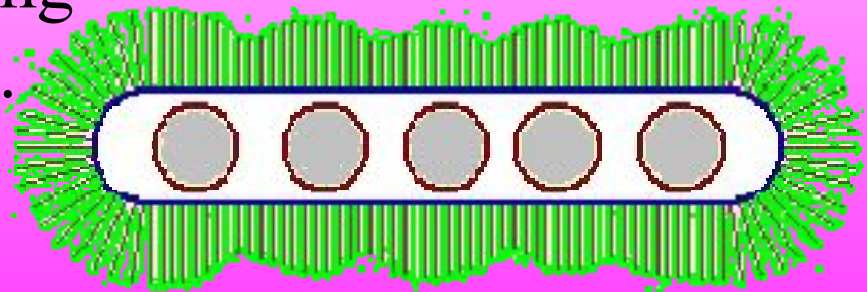
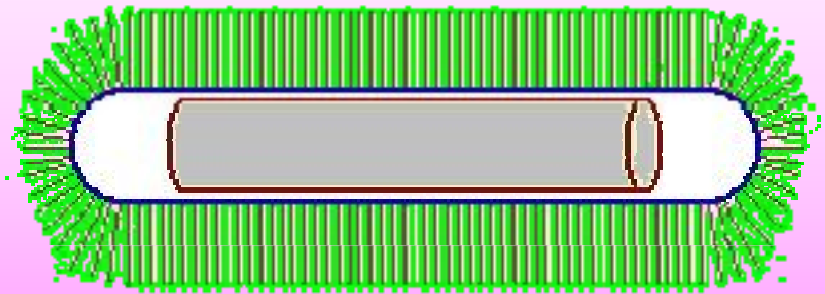
How Does the Seed Look?



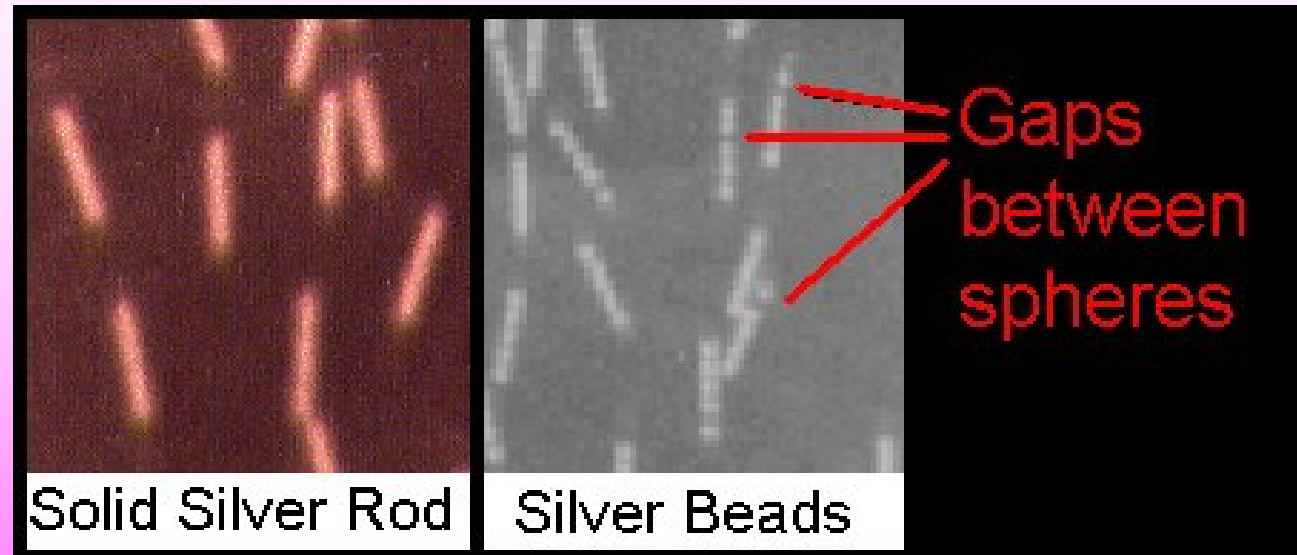
- The solid silver rod shows superior visibility on a x-ray.
- The solid silver rod design also provides the largest cross-section of any seed marker.

What about Dosimetry

- The solid silver rod provides a uniform distribution of the iodine-125.
- Spheres are subject to size variations creating dosimetry variations.



More about Dosimetry



- The Solid Silver Rod provides consistent dosimetry.
- Spheres can separate, causing variations in dosimetry from one seed to another.

How are the seeds shipped?

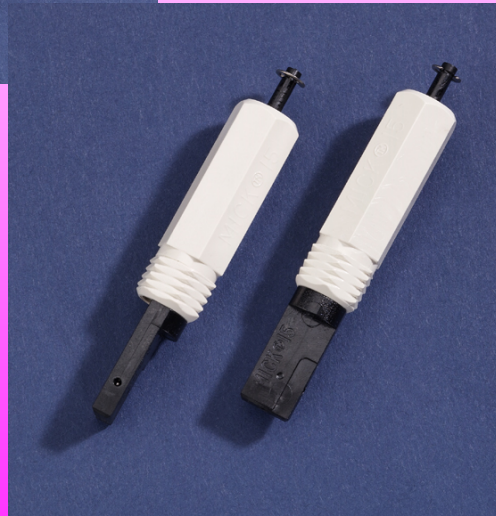
- Loose
- Mick™ Cartridges
- Pre-Loaded in Needles
- Stranded and Loaded in Needles

Loose Seeds

- Loose Seeds
 - The activity you want on the day you want.



Mick™ Cartridges



- Seeds can be loaded into Mick™ cartridges.
 - Disposable
 - Shielded-Disposable

What is a Mick™

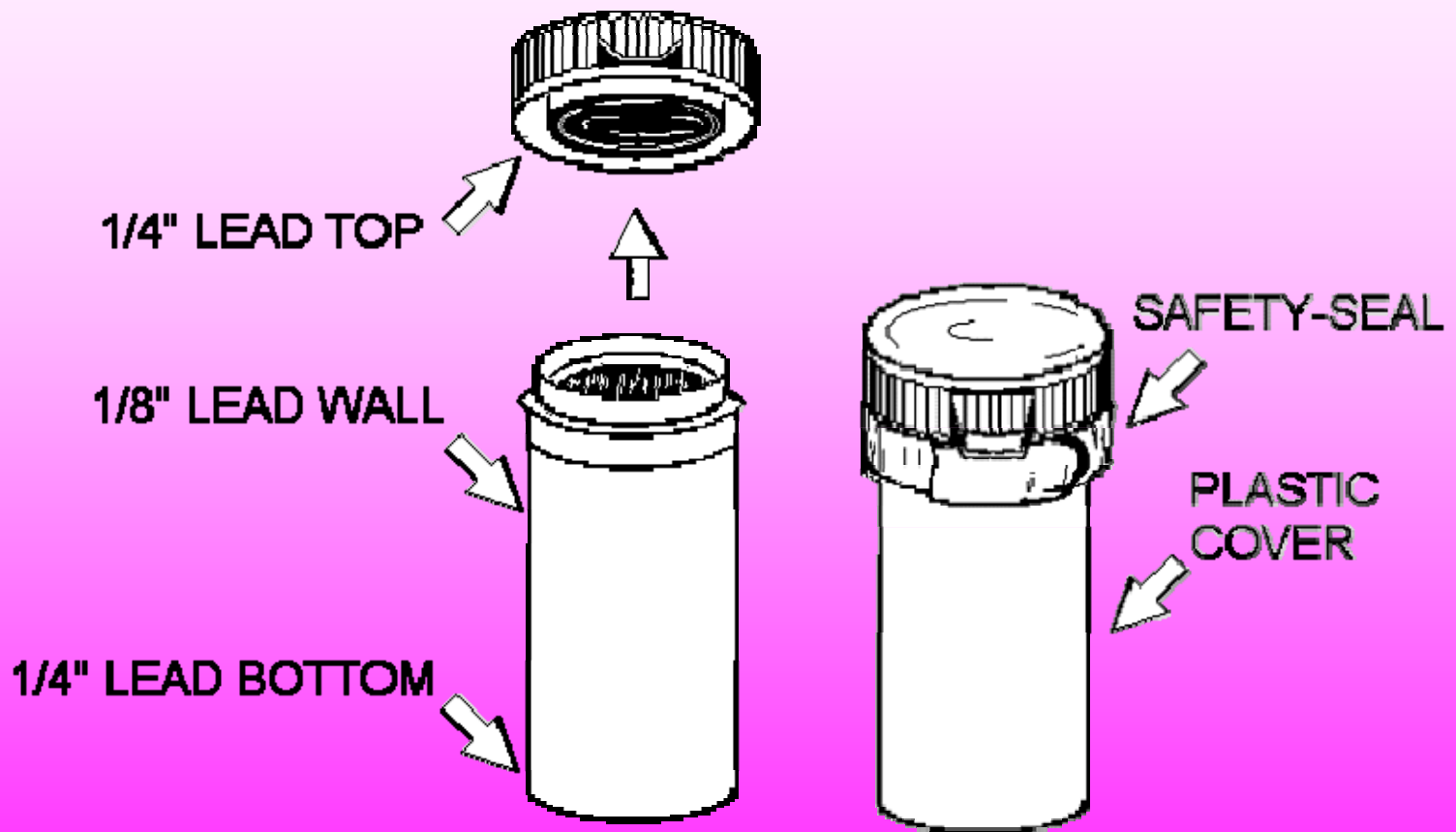
The Mick 200-TPV Applicator



"The Optimal Afterloading" & Real Time Design
Prostate Seed Implant Delivery System" for
Pd-103 and I-125 Seeds !

- Small cartridge with up to 15 seeds
- Uses a special “gun” to implant the seeds
- Allows for versatility in seed placement
- Hard to match treatment plan

Shipping Seeds / Micks™

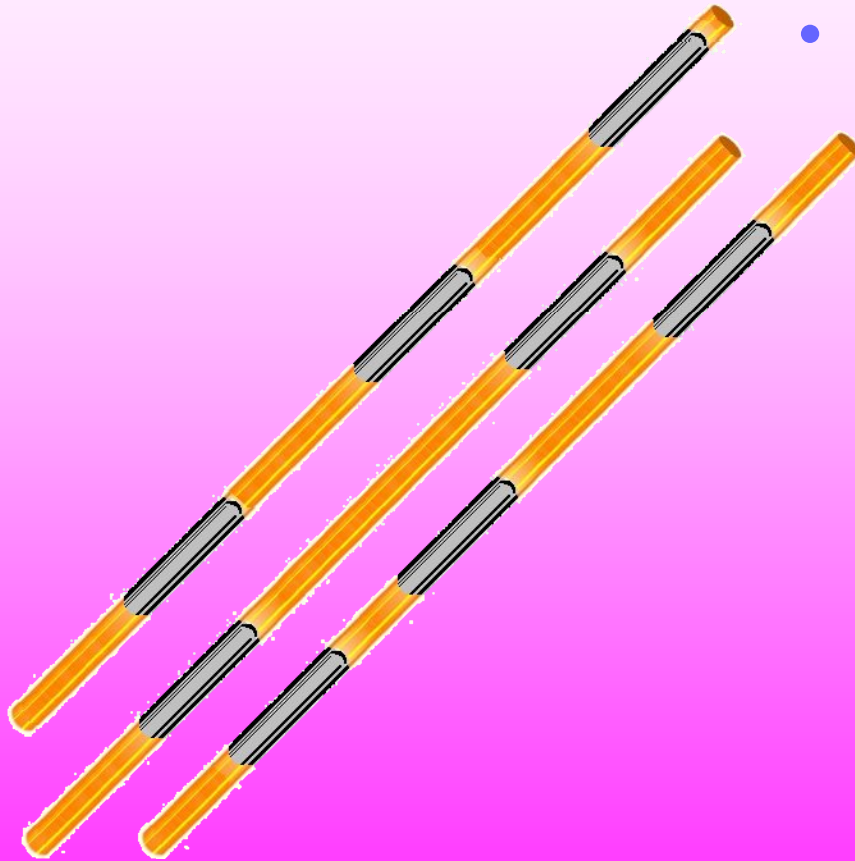


Pre-Loaded into Needles

- Pre-Loaded per requested treatment plan.



Stranded Seeds



- Seeds placed in strands according to requested treatment plan