



FOR TECHNICAL SUPPORT
Please Call +1 (859) 317- 9213
or
Email info@paratechs.com

IMPORTANT! Before NSET use please read carefully:

- [NSET Instructions](#) • [NSET FAQs](#) • [NSET Helpful Hints](#)

NSET Helpful Hints and FAQs can be found on our webpage:
www.paratechs.com/nset-resource-page/

The NSET™ Device is manufactured in the USA by an FDA Registered Medical Device Manufacturer and ISO 13485:2003 registered company.

Non-Surgical Embryo Transfer (NSET™) Device for Mice

Product Information

Catalogue #: 60010

EtO Processed

Quantity: 10 Devices per Box

Devices are individually packaged with 1 small and 1 large speculum in each pouch.

Intended Use

This device is used for ethical transcervical transfer of embryos into mice. For research purposes only. **Not intended for human or animal diagnostic or therapeutic uses.**

Handling

Devices are single use only. Discard after use.

Prior to NSET Transfer

Standard methodologies for mouse embryo manipulations and mouse breeding techniques are recommended.¹ Blastocyst stage embryos are recommended for transfer with the NSET device. Embryos may be transferred in M2 or KSOM medium. Pseudopregnant female recipient mice should be 2.5dpc (days post-coitum).

NSET demonstration video may be viewed at: www.paratechs.com/nset.

Transfer Procedure

1. Place a 15µl drop of culture medium onto the lid of a 60 mm tissue culture dish (Falcon 353002, or similar).
2. Load 12–20 blastocysts into the medium using a standard embryo handling pipette. (Note: optimal number of embryos to transfer will vary depending upon mouse strain and manipulations embryos have received.)
3. Secure the NSET device onto a P2 pipette that has been set to 1.8µl. (Recommended pipettes are the Pipette Rainin Classic PR2, 0.1–2µl or Gilson Pipetman P2, 0.2–2µl.)
4. Press pipette plunger to first stop, lower tip of the NSET device into medium and slowly pull embryos into the tip. Remove NSET device tip from the medium.
5. Carefully set pipette to 2.0µl to create a small air bubble at NSET tip to help ensure embryos stay inside device tip during insertion into the mouse. Gently lay pipette with loaded tip aside (near cage) for use in step #9.

(continued on reverse side)

6. Place the unanesthetized recipient female on top of a cage with a wire rack, allowing the mouse to “grab” the cage bar surface. Grasp the base of the tail using thumb and forefinger, and angle the tail upward while lightly pressing the base of the tail with the opposite edge of the hand.



7. Gently place small speculum into mouse’s vagina.
8. Optional: Remove small speculum and replace with the large speculum. If desired, use an adequate light source and visualize the cervix.
9. While holding the female mouse with one hand as described in step #6, carefully pick up the pipette and gently insert the NSET device tip into the speculum and through the cervix. Once NSET device hub contacts speculum, expel embryos by pressing plunger.
10. Gently remove NSET device without releasing pipette plunger and remove speculum. Return mouse to cage. No post-procedure monitoring is required.

References

¹**Behringer R, Gertsenstein M, Nagy KV, Nagy A.** 2014. Manipulating the Mouse Embryo: A Laboratory Manual, 4thed. Cold Spring Harbor (NY): Cold Spring Harbor Laboratory Press.

This product is intended for research purposes only.

CAUTION: Not intended for human or animal diagnostic or therapeutic uses. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product.

PARATECHS CORPORATION LIMITED WARRANTY

ParaTechs warrants that, at the time of shipment, the Product will conform to the specifications that accompany the Product. This warranty limits ParaTechs’ liability to replacement of the Product. **PARATECHS MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, WITH RESPECT TO THE PRODUCT; INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE PRODUCT DOES NOT INFRINGE ANY PROPRIETARY RIGHTS OF ANY THIRD PARTY.**

Patent Pending

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Visit our website at www.paratechs.com for NSET FAQs and Helpful Hints.

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