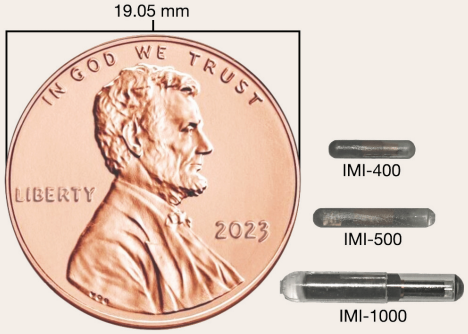
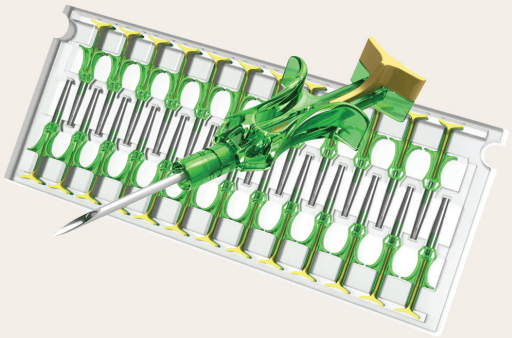
IMI-500 - 8 mm Read-Only Transponder



IMI-500 within disposable syringe applicator



The IMI-500 transponders are shipped within the disposable syringe applicator at 100 transponders per box.



IMI-500 Overview

The IMI-500 is a miniature glass-encapsulated 'read-only' transponder. Scanned by an appropriate BMDS reader device, the IMI-500 transmits a unique 10-digit alphanumeric code, making animal identification quick, easy, and fail-safe. The IMI-500 is identical to the classic IMI-1000, except in size.

Approximately 8 millimeters in length by 1.4 millimeters in diameter, the transponder features a new smaller size for specific applications. Compatible with BMDS reader systems that read the IMI-1000, IMI-500 features an amazing read distance of 3 inches or 8 centimeters.

Injected with a syringe-like action, IMI-500 transponders are pre-loaded in a disposable needle assembly. The ergonomic design of this one-piece tool fully integrates the handle, stainless steel needle, and drive pin. Packaged in boxes of 100, the patented applicator loaded with one transponder is processed through an ethylene oxide cycle for sterilization. No assembly or loading is required. Pick one up, remove the needle cap, implant the transponder, and dispose of the injector all in one clean operation.

BMDS Reader Compatibility
DAS-8001 with RSP-8004
DAS-8010 with RSP-8004
DAS-8020 with RSP-8004
DAS-8006 IUS
DAS-8008 BSC
DAS-8016
KP-8018

BMDS – Bio Medic Data Systems
1 Silas Road, Seaford, Delaware 19973 U.S.A.
Tel: Call (800) 526-2637 or (302) 628-4100 | bmds.orders@avidityscience.com
www.AvidityScience.com/BMDS

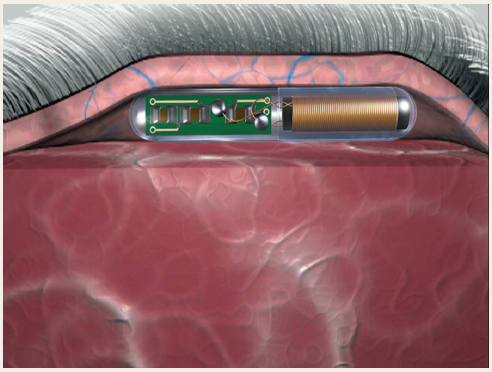
DS-000058 Rev C

IMI-500 - 8 mm Read-Only Transponder

Specifications

Technical Characteristics

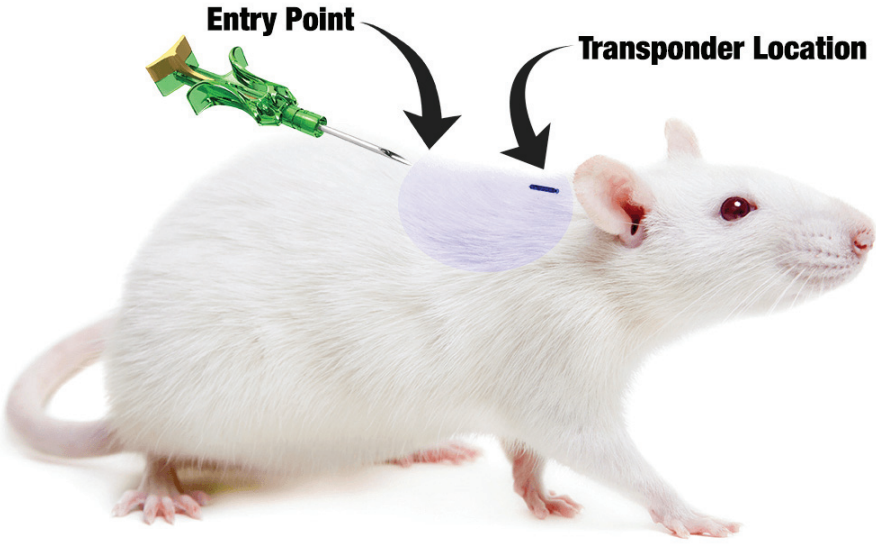
- Read Distance: 3 inches (76.2 millimeters)
- Size: 1.4 millimeters in diameter, 8 millimeters long
- Biocompatibility: The IMI-500 transponder is encased in glass suitable for all laboratory species; SCHOTT Glass number 8625, soda lime-silicate glass for encapsulation, has excellent tissue compatibility
- Needle: 15 gauge stainless steel, OD is 0.071 inches (1.8 millimeters)
- Memory: 10 alphanumeric characters (non-volatile data)
- Data is stored on board the transponder even when not powered by a BMDS Smart Probe
- Anti-Migration: The IMI-500 is coated with a micro-thin coating of Parylene C



Operation

Designed for harmless implantation, BMDS transponders are the most convenient, humane, reliable, and cost-effective method for automated animal identification. You can even retrieve data decades after a study ends if you remove the transponder with a tissue sample and place it into long-term storage, in cold or liquid preservative.

Parylene coating will encourage tissue encapsulation to prevent transponder migration. The coating forms a surface that allows for tissue fiber adhesion within the animal subcutaneous layer thereby bonding around the transponder holding it in place. Parylene coatings are used in many animal applications as well as for human medical use. Examples are pacemakers, forceps, catheters, stents, needles, implantable devices, and many more have a parylene coating. The coatings have been proven to prevent rejection of the item and speed up the bonding process with the tissues. Parylene is fully biocompatible. Parylene has been FDA-approved (with USP XXII Class VI biocompatibility rating) and is safe for use within the human body. Parylene has also passed the ISO10993-1/FDA biocompatibility evaluation tests for cytotoxicity, system toxicity, hemocompatibility, sensitization, and intracutaneous reactivity.



AVIDITY® SCIENCE

BMDS – Bio Medic Data Systems
1 Silas Road, Seaford, Delaware 19973 U.S.A.
Tel: Call (800) 526-2637 or (302) 628-4100 | bmds.orders@avidityscience.com
www.AvidityScience.com/BMDS