

NONATEC TRANSPONDER

IDENTIFICATION AND TRACEABILITY SOLUTIONS FOR LABORATORIES

The **NONATEC** Tag (or transponder) produced by Lutronic International is the **smallest RFID tag available in the market**. This new technology, operates at the High Frequency 13.56 MHz and allows the identification of small animals in a very secure and long term manner.

The **NONATEC** Tag contains the latest generation of **NXP MFO IC U1 electronic chip**. This rewritable chip can be read and written

to more than **10000 times**. It is the best way to identify and track the animal during its entire life, offering a very powerful management tool when used with our software. Each **NONATEC** Tag has a universal and unique identification code which guarantees animal identification. The tag can also be used either as a security or an anti counterfeiting device.



The **NONATEC** tag is delivered in a very ergonomic syringe made for easy non traumatic injection into small animals. The small needle diameter of 1.2 mm (**18 gauge**) is the perfect size for implanting animals, without harm, only a few days after birth.



The small size allows laboratories to monitor very young animals with minimum stress making it ethically more acceptable - this also minimizes the possibility of skewed results caused by trauma.

Each syringe contains a **NONATEC** tag ready for injection. They are packaged individually and sterilized.

The **NONATEC** tag is hermetically encapsulated within a **biocompatible glass tube** which guarantees that it is both inert and safe within the animal. The **NONATEC** transponder provides reliable and robust identification for the entire life of the animal.

TECHNICAL FEATURES

GENERAL

- Size: 1mm dia * 6 mm long
- Weight: 7,15 mg
- Operating frequency: 13,56 MHz
- Needle diameter: 18 G (1,2 mm)

PERFORMANCES

- Smallest biocompatible transponder worldwide (patented technology),
- Automatic recognition
- Memory: 512 bits
- Rewriting: to 10 000 times

SECURITY

- Unique and Universal Identification Number
- Non traumatic injection

ENVIRONMENTAL

- Biocompatible glass tube
- Chemical resistance:
 - Water immersion IP68: 20°C, 24h under 1m
 - Alcohol, ammoniac... immersion: 20°C, 100h
- Mechanical robustness:
 - vibration IEC 68.2.6: 6g, 14... 200Hz, 3 axis, 8H per axis
 - Shock: IEC 68.2.27: 30g, 18ms, 3 axis, 1084 times per axis
- Thermal characteristics:
 - Storage temperature -40°C to + 90°C (+ 120°C for total 100 hours)
 - Operating temperature: -40°C to 85°C



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