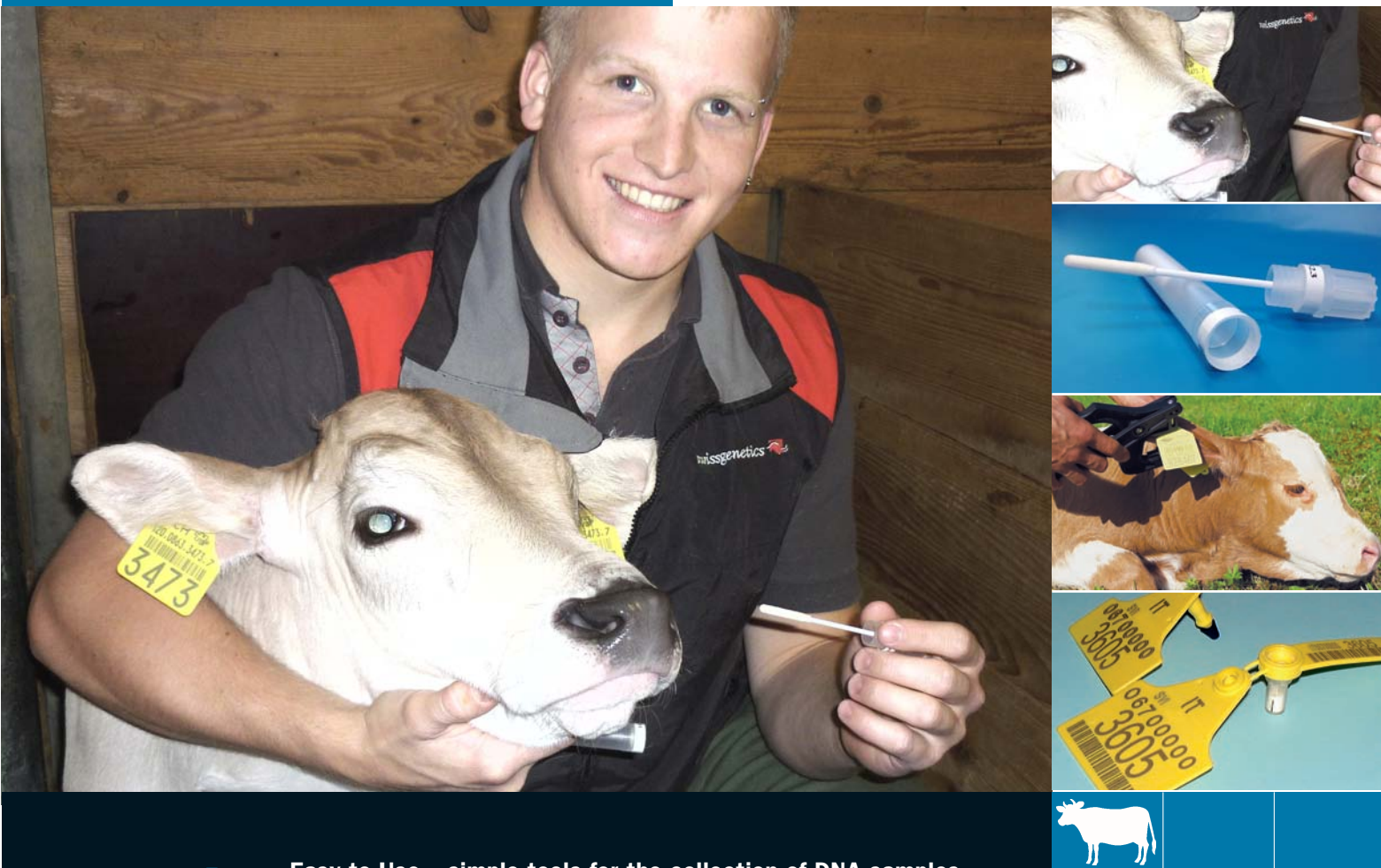


Convenient DNA sampling in cattle. **GENOTUBE AND TYPIFIX™**



- Easy to Use – simple tools for the collection of DNA samples
- Reliable - fast drying ensures good sample quality in the lab
- Cost Efficient – no refrigeration nor rapid transport required

BOVINE GENOTYPING WITH TYPIFIX AND GENOTUBE

Genetic-based bovine breeding schemes are being used increasingly. The recovery of high yields of intact genomic DNA from bovine samples gains importance as genotyping and sequencing of DNA samples has become standard practice in the cattle industry. To increase their application, the processes of collection, transport, storage and genotyping of bovine samples must be integrated, robust, and cost-effective. Prionics has devised simple methods for sample collection: The Typifix™ diagnostic ear tag and the non-invasive Prionics nasal swab, GenoTube. Both methods are fully compatible with the Illumina bovine genotyping arrays (GoldenGate Bovine Net Merit Panel, Infinium Bovine SNP50 DNA Analysis BeadChip and Infinium Bovine HD BeadChips).

The combination of the sample collection products of Prionics and the analysis products of Illumina is a convenient and reliable system that covers the whole procedure from sample collection to genetic information.

TYPIFIX™ SYSTEM

The innovative TypiFix™ system combines conventional ear tagging with tissue sampling in one simple step. During the process of tagging livestock, this sampling technology automatically collects and seals tissue samples in TypiFix™ sample containers, conserving proteins and nucleic acids. Using this system, the tapered metal punch applies the tag without tearing tissue, thus avoiding infection. The TypiFix™ sample preservation technology shows excellent compatibility and reliability both for genotyping (Illumina and other genotyping platforms) and BVDV analysis (PCR and ELISA). Tissue samples can be stored longterm at ambient temperatures in the TypiFix sample collector.

The TypiFix™ system is an efficient and cost-effective solution for identifying and tracking animals and includes processes for automation and data management. The system builds on years of experience in official animal ID projects.

Features

- One-step tagging and sample collection
- Tamper-proof, compliant with EU regulations
- Compatible with various diagnostic tests such as ELISA, PCR-based and RT-PCR tests.
- TypiFix™ container for optimized lab performance
- Large tissue sample for even higher yields of DNA

GENOTUBE LIVESTOCK

The GenoTube Livestock is a non-invasive tool to collect DNA from the nostril of cattle, horses and other animals. The GenoTube is easy to use and can be handled by anyone. After the swab is placed back in the tube, the sample is

dried and the DNA in the sample stabilized. The tube can be transported and stored under normal storage conditions without refrigeration. DNA contained in the sample remains stable for years. The amount of DNA is sufficient for testing with the Illumina chip technology and gives as good results as blood samples.

Benefits

- Non-invasive
- Good sample quality – ensured by the fast drying of the sample
- Ensured pairing of swab and tube – identical ID-Number on both the swab cap and the tube
- Lower transportation costs – refrigeration or rapid transport not required
- No degradation of DNA after long term storage
- Drying process is not influenced by ambience conditions – drying independent of environmental humidity

Other Applications

Due to its good drying performance and easy handling, the GenoTube can also be used for other applications such as:

- Sampling for disease testing (e.g. Influenza, FMD, etc.)
- Feces sample taking
- DNA sampling in pets for tests to detect genetic disorders



TypiFix™ ear tag cattle

Prod. No. 80033240

For other ear tag products, please visit www.prionics.com



GenoTube Livestock

Prod. No. 9062010

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