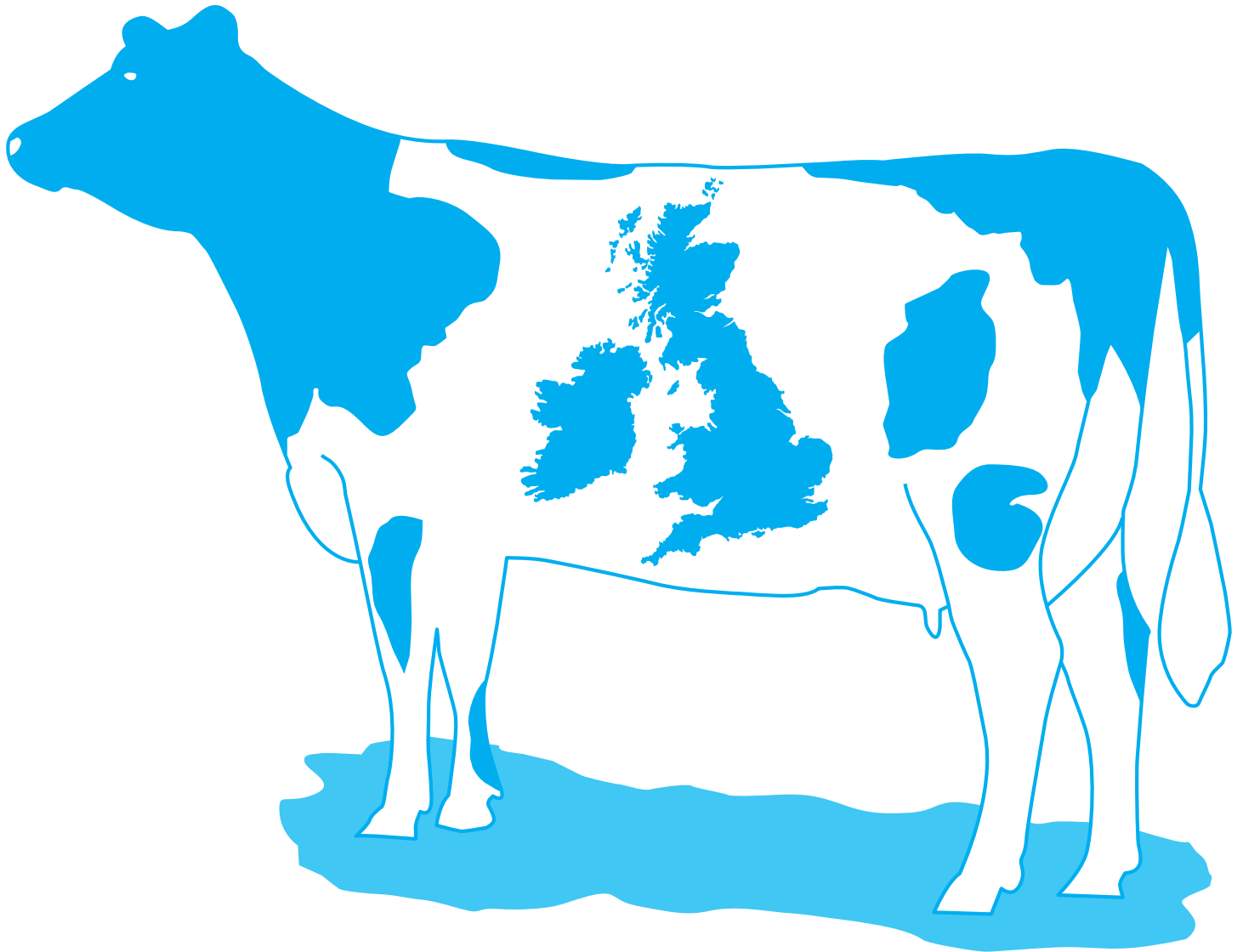


# Bactoproof™

“A quicker way to quality milk!”



[www.biobest.co.uk](http://www.biobest.co.uk)



Bactoproof™ is a method developed for the reliable, rapid diagnosis of bovine mastitis. Its most significant advantages are described later in this guide. Only a small milk sample is necessary for the test. This is sent to Biobest Laboratories Ltd for analysis. The Bactoproof™ results are ready just a few hours after the sample has arrived at the laboratory.

## Contents of the package

Verify that one of each of the following items is present in this single-sample testing kit:

- Kit insert with sampling instructions and sample tracking grid
- Collection tube containing a bronopol\* tablet
- Plastic bag
- Absorbent paper
- Sheet of four barcode labels
- Security seal

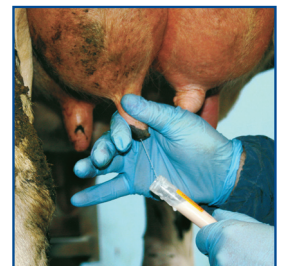
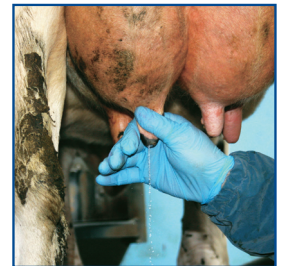
Please contact Biobest on 0131 440 2628 if any items are missing.

### \*Bronopol

Contents: 2-bromo-2-nitropropane-1,3-diol. Intended use: preserving milk samples. Harmful on contact with skin or if swallowed. Irritates the respiratory tract and skin. Serious risk of damage to eyes. Keep out of the reach of children. Suitable protective gloves must be worn along with eye or face protection. If splashed into the eyes, rinse immediately with plenty of water for 15 minutes and seek medical advice. Highly toxic to aquatic organisms. Avoid releasing into the environment.

# Sampling instructions

1. Take sample before milking. Wearing disposable gloves wipe teat clean and dry off with a paper towel.
2. Stick one barcode label along the length of the collection tube supplied in the Bactoproof™ kit (to help the lab process your sample as quickly as possible do not place around the tube). Add a second label to your milking records or to the sample tracking guide on this leaflet along with the animal ID and date of sampling. **N.B. It is essential to retain the barcode details assigned to each individual animal to ensure you can access the correct results.** The remaining labels are spare and can be used by your vet or other advisers to access your results.
3. Squeeze the teat and expel milk several times. Take the cap off the collection tube. Ensure that the cap stays clean. Squeeze the teat again several times, initially letting the milk fall to the floor and then collecting it in the tube. Keep the tube tilted so that no contaminants can enter. Make sure that the bronopol\* tablet stays inside the tube. Take a sample of at least half a tubeful of milk. Put the cap back on the tube immediately, and invert the tube several times to help the tablet dissolve more quickly. However, the tablet need not dissolve completely.
4. Place the tube and the absorbent paper into the plastic bag. Seal the plastic bag and put it into the sample delivery box. Seal the delivery box closed using the security seal.
5. Post the sample box as soon as possible to ensure that it will arrive at the laboratory on the next working day. Samples should be kept at room temperature until they are posted. **Please note that although the laboratory can receive samples on a Saturday testing is currently only performed Monday - Friday.**



# Results

Samples that arrive at the laboratory in the morning are analysed the same day, and the results are usually available by 18:00. You can obtain your milk sample results directly by entering the barcode number into the ID number field on the online reports page of our website at <http://www.biobest.co.uk>.

You can also choose to have the results sent directly to your mobile phone as a text message as soon as they are available. You can register for this premium service when ordering kits online or by simply texting your unique barcode number to the laboratory. To register by text send a message in the form "Bio <space> <barcode number>" (example: "Bio 012345678901") to the number 82085. We will confirm receipt of a correct barcode and results will be sent as soon as they are available and have been through our quality control process. Registration texts cost £1 plus your normal network rate. If you have not received your results within two working days of sending your sample, please contact the laboratory ([enquiry@biobest.co.uk](mailto:enquiry@biobest.co.uk) or 0131 440 2628). N.B. Text messages will only provide details of pathogens which have been detected (or will confirm if no pathogens have been detected), full reports will be available on the website ([www.biobest.co.uk](http://www.biobest.co.uk)).



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[www.biobest.co.uk](http://www.biobest.co.uk)

## SAMPLE REPORT

Customer:  
Paul Bunyan  
Hilltop Farm  
Penicuik  
Midlothian  
EH26 0PZ

Our Ref	Your Ref	Date	Sample Material	Outcome
515654670450		21 Jul 09	Milk	Streptococcus uberis +++ Escherichia coli ++
518188539552		21 Jul 09	Milk	Staph. Aureus +++ Penicillin Resistance +

# Advantages of the Bactoproof™ test

- **Recognises all of the most important mastitis bacteria and identifies penicillin resistance**

The test recognises the following species and groups: *Staph. aureus*, Coagulase negative staphylococci\*, *Str. agalactiae*, *Str. dysgalactiae*, *Str. uberis*, *E. coli*, *C. bovis*, *A. pyogenes* and/or *P. indolicus*, *S. marcescens* and the enterococcus and klebsiella species. In addition, the test reveals the sensitivity or resistance of staphylococcus to penicillin. The species recognised by the test account for more than 99% of all cases of mastitis.

- **Indication of bacterial counts**

Bactoproof™ indicates the quantities of bacteria for every identifiable species as follows: low (+), moderate (++) or high (+++). If a species is not identified, it will be reported as follows: (-).

- **The results reflect the situation at the moment of sampling**

Unlike conventional culture methods the bronopol tablet in the Bactoproof tube prevents bacterial growth in the milk sample during transport. This helps to ensure that the bacterial population found in the laboratory corresponds to the situation at the moment of sampling.

- **This is also a sensitive method for bacteria that grow poorly or not at all in culture**

Because Bactoproof™ recognises the DNA of bacteria, it also detects dead bacteria and bacteria that are difficult to grow. Bacterial cultures are used in conventional mastitis testing which results in 25–40% of mastitis cases yielding a “no growth” result. Bactoproof™ will identify the cause of mastitis in approximately half these cases. We can also test samples from animals which are already being treated and bulk milk samples to provide an overview of mastitis pathogens in the herd.

- **Samples received by 9 am will have results available that evening via the online web reporting page or by text message**

\*If *Staph. aureus* is detected the test cannot distinguish whether other coagulase negative staphylococci are present, in these cases the coagulase negative staphylococci result will not be reported.

# Orders and product support

You can order further Bactoproof™ kits from your vet or online from [www.biobest.co.uk](http://www.biobest.co.uk). Discounted Bactoproof™ prices are available to members of our cattle health scheme Biobest Herdcare ([www.biobest.co.uk/herdcare](http://www.biobest.co.uk/herdcare)) or for bulk orders (10+ kits).

e-mail: [enquiry@biobest.co.uk](mailto:enquiry@biobest.co.uk)

Telephone: 0131 440 2628

www: [www.biobest.co.uk](http://www.biobest.co.uk)

## Sample Tracking Sheet

It is vital that you keep track of the barcode number you have assigned to a particular animal. The laboratory only use the barcode number and will have no way of tracing an animal ID to that number. Please use this sheet to record the barcode number and your animal ID in case you have an enquiry at a later date.

**THIS SHEET IS FOR YOUR RECORDS ONLY  
DO NOT SEND IT TO THE LABORATORY**

Barcode Label	Animal ID
Date of Sample	

6 Charles Darwin House, The Edinburgh Technopole  
Milton Bridge, Nr Penicuik, EH26 0PY

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