

Join the Future of On-Farm Mastitis Testing

Transform your mastitis management with cutting-edge molecular diagnostics – tested on your farm, refined by your expertise



**BETA TRIAL
OPPORTUNITY**
WITH
BIOTANGENTS



Why This Matters to You

Every dairy farmer knows the frustration: you sample on Tuesday, wait until Friday for lab results, and by then your cow has suffered through another treatment cycle that might not even work. With treatment failures in 30-40% of cases and £150-250 lost per failed cycle, traditional testing is costing you money and compromising cow welfare.

What if you could get molecular precision results in under 2 hours, right on your own farm?

Register for the
Exclusive BETA Trial
www.biotangents.co.uk

The Hidden Cost of Guesswork

Our recent field trials tell a remarkable story: Testing 160+ milk samples from farms across the country where farmers suspected mastitis, we found that **65% didn't require antibiotics at all**. This means up to two-thirds of suspected cases may be receiving unnecessary broad-spectrum antibiotic treatment.

The true cost per unnecessary treatment

- £30 in antibiotic costs (3 days at £10/day)
- £140 in discarded milk (8 days × 40L × 44p/litre)
- **Total: £170 per case** – and this applies to potentially 65% of suspected mastitis cases

Additional hidden impacts

- Contributes to antimicrobial resistance (AMR) in your herd
- Damages cow's microbiome and overall health
- Reduces long-term productivity and cow welfare

The Biotangents Solution

Our revolutionary on-farm diagnostic system delivers laboratory-quality results that enable better-informed treatment decisions in collaboration with your veterinary team.

Immediate benefits

- **Test anytime, anywhere** – No weather delays, no transport issues
- **Results in under 2 hours** – Make informed decisions within your normal management routine
- **Molecular precision** – Identifies specific pathogens with 95-99% accuracy
- **Better treatment decisions** – Work with your vet to determine optimal approach

Simple 4-step process

- 1 Sample:**
Collect 2ml milk during milking.
- 2 Load:**
Prepare sample, insert into cartridge, place in analyser
- 3 Wait:**
Under 2 hours automated analysis (40 minutes prep, 60-70 minutes analysis) – only 5-10 minutes of your time required.
- 4 Decide:**
Results show specific pathogens – work with your vet to treat with targeted antibiotics, provide supportive care, or withhold treatment entirely.

Technology highlights

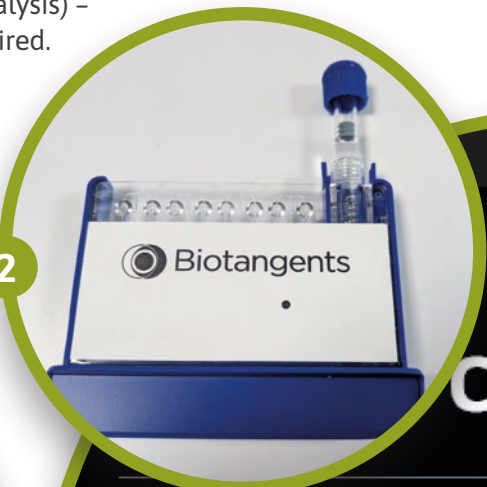
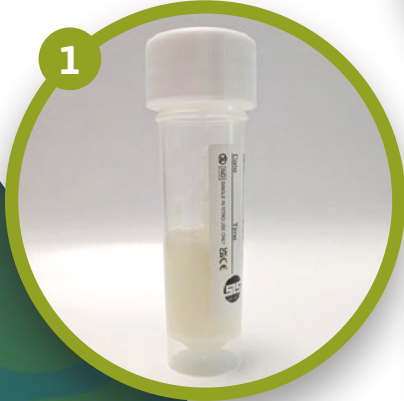
- **Tests for 6 specific mastitis pathogens:** *E. coli*, *Staph aureus*, *Strep uberis*, *Strep dysgalactiae*, *Strep agalactiae*, and *Klebsiella* (with additional pathogens like *CNS* and *T. pyogenes* in development).
- **95-99% accuracy** compared to cell culture and PCR.
- Identifies mixed infections missed by culture.
- Operates reliably from +4°C to +45°C.
- 12-month shelf life on test cartridges.
- Technology like PCR but designed for on-farm use.
- Platform expandable to future livestock diagnostics – next generation will test up to 30 pathogens including BVD, mycoplasma, and respiratory diseases.
- **Future capability:** Antibiotic resistance gene detection to guide treatment decisions.

1

2

3

4



Cow ID

E. coli	–			
S. aureus		+		
S. uberis		+	+	+
S. agalactiae	–			
S. dysgalactiae	–			
K. pneumoniae	–			

Exclusive Beta Trial Benefits

As a beta trial participant, you'll receive:

Early access advantage

- ☆ Be among the first farms to use this game-changing technology
- ☆ Get ahead of competitors with superior mastitis management
- ☆ Establish yourself as an innovation leader in your region

Real economic impact

For a typical 100-cow herd with 30 annual mastitis cases (average incidence rate):

- ☆ **Avoid unnecessary treatment:** 65% of cases (20 cases) × £170 = £3,400/year saved
- ☆ **Better-informed treatment decisions:** Work with your vet to select optimal therapy
- ☆ **Enhanced milk quality:** Lower somatic cell counts improve pricing tiers
- ☆ **Rapid pathogen identification:** Know what you're dealing with in under 2 hours

Long-term herd benefits

- ☆ Reduced need for dry cow therapy
- ☆ Extended productive cow life (lower replacement costs)
- ☆ Improved milk quality payments from processors
- ☆ Lower greenhouse gas emissions per litre (longer productive life)

Shape the future

- ☆ **Your expertise drives development** – Help refine the technology and support innovation in the wider farming community
- ☆ Direct input into user interface design
- ☆ Influence features that matter to working farmers
- ☆ Co-create the next generation of livestock diagnostics

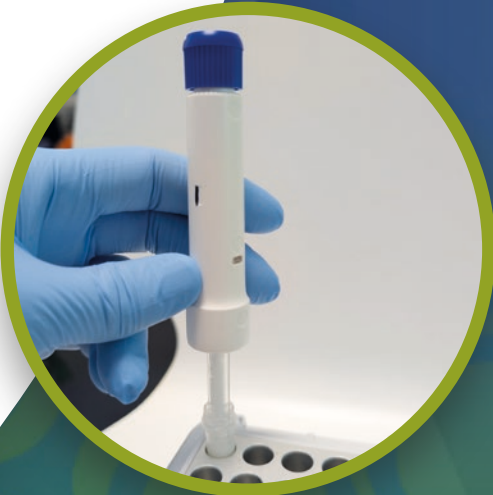
Veterinary partnership opportunities

We actively welcome veterinary practices interested in leading trials with their dairy clients. This represents an excellent opportunity for progressive veterinary professionals to:

- ☆ Stay at the forefront of diagnostic technology
- ☆ Strengthen relationships with dairy clients through innovation
- ☆ Evaluate technology that could enhance your practice offerings
- ☆ Lead the profession in precision livestock health management

Comprehensive data collection

This trial will provide valuable comparative data by tracking both treated and control groups across key metrics including mastitis incidence, treatment approaches (broad-spectrum vs targeted vs supportive care only), milk quality improvements, drug costs, milk discard volumes, and overall herd health indicators. Your participation helps build the evidence base for precision livestock health management.



Flexible participation options

Option 1

ADOPT grant-supported trial (English farms only)

- ☆ Support for collaborative farmer-led on-farm trials
- ☆ Funding available to offset trial costs
- ☆ **Biotangents handles the grant application process** – we do the heavy lifting
- ☆ **Multiple application windows available:**
 - **Next deadline: 10 December 2025** (project can start anytime up to May 2026)
 - **February 2026** deadline also available
- ☆ **Cost to you: Minimal/No cost** (subject to successful grant application)

Option 2

Customised trial arrangements (All farms)

- ☆ Tailored trial programs designed for your specific operation
- ☆ Available to all dairy farms
- ☆ Flexible arrangements based on your farm size, location, and requirements
- ☆ **Investment: Custom pricing** determined through consultation based on your specific needs
- ☆ All core benefits identical to grant-supported option



What We're Looking For

Ideal participants:

- Dairy operations with **10+ monthly mastitis cases** (minimum for statistical significance)
- Mix of high and low mastitis rate farms for comparative analysis
- Operations interested in precision agriculture and “test-then-treat” protocols
- Both organic and conventional operations welcome

Perfect fit if you:

- Waiting for lab-based sample results hinders the quick action you would prefer to take
- Want to reduce unnecessary antibiotic use while improving treatment outcomes
- Are interested in contributing to the future of precision livestock health
- Can provide feedback on technology performance and usability

The Trial Process

Phase One: Baseline data collection

- Use the Biotangents system to test suspected mastitis cases
- Compare diagnostic results with current decisions and treatment outcomes
- Gather performance data without changing existing key practices
- Together with Biotangents build understanding of your herd's mastitis patterns

Phase Two: Guided treatment

- Use Biotangents' system to deliver diagnostic insights to inform veterinary decisions
- Implement targeted treatment protocols in collaboration with your vet
- Measure improvements in treatment outcomes

Your investment

- **ADOPT-supported option:** Minimal/no cost (English farms with successful grant)
- **Customised trial option:** Tailored investment based on your farm's specific requirements and circumstances
- Commitment to use equipment with reasonable care and return in good working condition
- Provide feedback through structured interviews
- Share anonymised data for technology development



Complete Support Package

We provide everything you need:

- **Full diagnostic system** delivered and installed
- **Comprehensive training** for your team
- **Veterinary collaboration support** – We'll help structure treatment protocols with your vet
- **60-day evaluation period** to assess fit
- **24/7 technical support** throughout the trial
- **All consumables and materials** included

Contact us to register for the Exclusive Beta Trial

Email
sales@biotangents.co.uk
Phone
+44 (0)131 514 0871
Website
www.biotangents.co.uk

Next Steps

Ready to revolutionise your mastitis management?

- 1 Express Interest:** Contact us to discuss your farm's specific needs and preferred participation option
- 2 Farm Assessment:** We'll evaluate how the system fits your operation
- 3 Choose Your Path:**
 - **English farms:** Join ADOPT-supported trial (we handle the application) or arrange customised trial
 - **Scottish/Welsh/Northern Irish farms:** Customised trial arrangements
 - **Veterinary practices:** Lead trials with your dairy clients – contact us to discuss opportunities
- 4 Trial Agreement:** Complete simple participation agreement outlining terms and conditions
- 5 Trial Launch:** Start testing and shaping the future



Limited spots available – Priority given to farms that can **start trials by March 2026**.

For ADOPT grant applications: Multiple opportunities available – express interest to discuss which application window works best for your operation.

Frequently Asked Questions

What happens to the data from my cows?

You own all data about your cows. We request permission to use anonymised data for research and product development.

What if the equipment breaks?

We provide full technical support, repairs, and replacements at no cost during the trial.

Can I stop the trial early?

Yes, you can withdraw at any time. We simply ask for return of the equipment in good working condition.

I'm not in England – can I still participate?

Absolutely! While ADOPT grants are only available to English farms, we welcome participation from farms across the UK through our customised trial arrangements.

What's the difference between the two participation options?

ADOPT-supported participants have standardised terms through the grant program. Customised trial participants work with us to develop arrangements tailored to their specific farm size, location, support requirements, and circumstances. Both receive the same core trial experience and technology access.

Will this replace my veterinarian?

Absolutely not – the system provides diagnostic information to support veterinary decision-making, not replace professional judgment. We encourage close collaboration with your vet throughout the trial.

Note: This technology works best as part of a collaborative approach with your veterinary team. The diagnostic results provide valuable information to guide treatment decisions, but veterinary expertise remains essential for overall herd health management.



Join us in creating the future of precision livestock health management. Your farm, your expertise, your competitive advantage.

This is your opportunity to be part of something bigger – improving animal welfare, reducing antibiotic resistance, and advancing precision agriculture.

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