



2024 DTAS conference

Working in partnership with the dairy supply chain

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Decoding milk data, building robust insights. \bigcirc

Content

Who are we?

Processes

Reporting

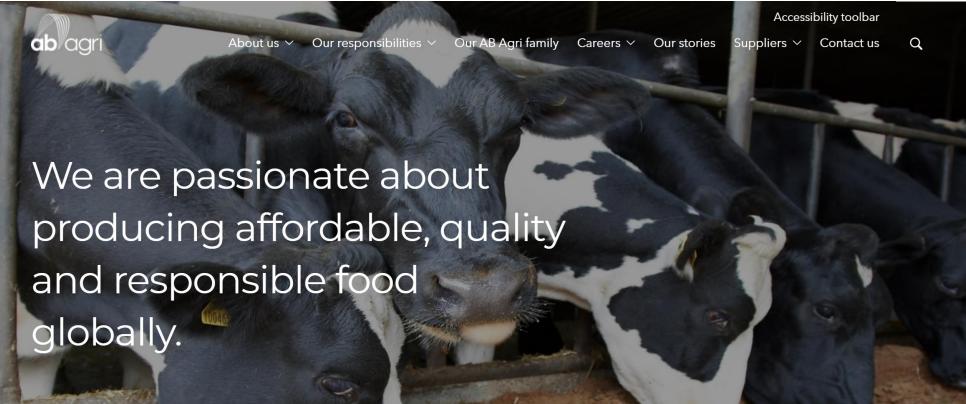
Working in partnership

Take home messages



Who are we?





- 4,000 staff
- Selling products and services in 84 countries
- Reaching 5 million farmers

Sample collection



19 vitos and 1 sprinter





Processes

Lab open 365 days a year and 19 hours a day

April 23 – March 24 data

2.008m bulk milk samples registered

1.585m bulk milk samples tested

5.6m milk recording samples tested

1.7m samples tested for Johne's







Lab processes





VIDEO: <u>https://youtu.be/QtHmk_AE2A0</u>

Reporting

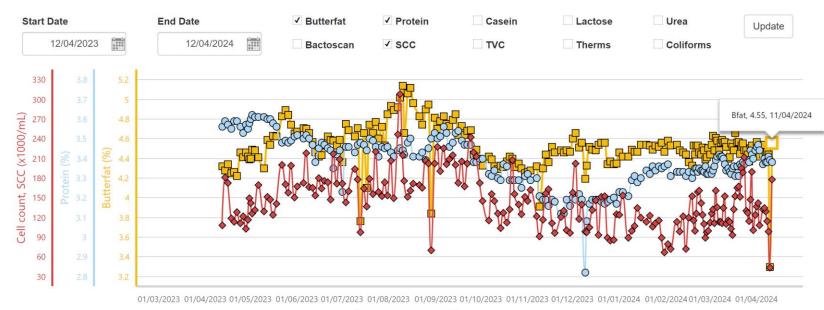


Reports to processors, hauliers and farmers

Notifications by post, email and SMS

- > 100,000 emails per month
- 130,000 SMS messages per month
- > 25,000 letters per month

Milk Quality Monitor Chart







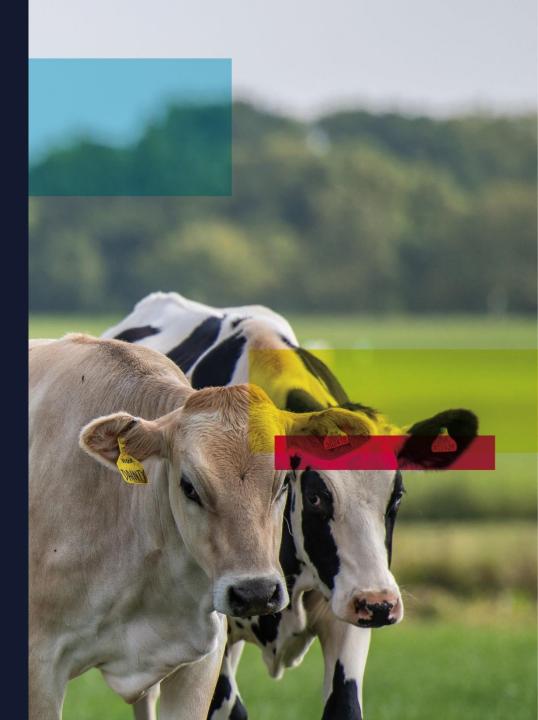
Working in partnership

Warranty management

Due diligence

AB PT scheme

Sustainability solutions



Warranty management

✓ Confirmation of safe sample receipt

- Reporting of progress in completing investigation
- Co-ordination of external testing when required
- ✓ Result interpretation
- ✓ Frozen storage for 6 months for all samples associated with the warranty rejection



Due diligence for GB dairy



According to the Food Safety Act 1990, a food safety due diligence defence concerns persons charged who can prove to have taken all reasonable precautions to avoid the commission of the offence by themselves or by a person under their control.12 Jan 2022

Consideration given to:

- Tests covered
- Number of samples tested
- Frequency of testing

Annual report with findings and horizon scanning for future challenges

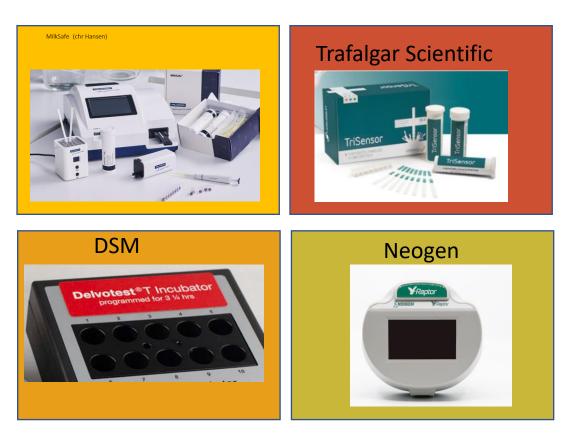


Contaminant type
Antibiotics
Anti-inflammatories
Aflatoxin
Melamine
QAC
Pesticides
PCBs and dioxins
Heavy metals
Parasiticides
Chlorates - routine

Quaternary Ammonia Compounds – used in disinfectants and detergents From NMRO

Antibiotics PT scheme

Choice of test

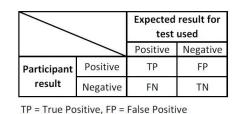






NML Antibiotic Ring Trial Summary 2023





TN = True Negative, FN = False Negative

$$\%$$
accuracy = $\left(\frac{TP+TN}{TP+FP+TN+FN} \times 100\right)$

4 rounds per year

- Next round w/b Monday ۲ 17/06/2024 (iso week 25)
- Currently 10 participants ٠
- 100% accuracy for 4 out of ۲ 10 participants
- Test methods used so far:-

Delvo T,

Charm 2 minute

SNAPduo ST Plus

Charm 3 minute

Participant: A		Expected result for test used		
		Positive	Negative	Total
Darticipant	Positive	24	2	26
Participant Result	Negative	4	12	16
Result	Total	28	14	42

Participant: B		Expected result for test used			
		Positive	Negative	Total	
Participant	Positive	36	0	36	
Result	Negative	0	18	18	
Result	Total	36	18	54	

19

0

1

20

Expected result for test

Positive Negative Total

1

9

0

10

20 9

1

30

Participant: C		Expected result for test used		
		Positive	Negative	Total
Participant	Positive	10	2	12
Result	Negative	4	20	24
	Total	14	22	36

Accuracy 85.7%

Participant: D		Expected result for test		
		Positive	Negative	Total
	Positive	16	1	17
Participant Result	Negative	1	8	9
	No Result	2	1	Д
	Submission	3	T	4
	Total	20	10	30
Accuracy 80.0%				

Participant

Result

Participant: G		Expected result for test			
		Positive	Negative	Total	
Participant Result	Positive	48	0	48	
	Negative	0	24	24	
	Total	48	24	72	
Accuracy 100.0%					

Accuracy 93.3%

Accuracy 100.0%

Participant: E

Positive

Negative

No Result

Submission

Total

Participant: H		Expected result for test		
		Positive	Negative	Total
Positive		20	8	28
Participant Result	Negative	15	9	24
	No Result	1	1	2
	Submission	T	T	Z
	Total	36	18	54

Accuracy 53.7%

Accuracy 83.3%

Participant: F		Expected result for test		
		Positive	Negative	Total
	Positive	5	0	5
Participant Result	Negative	2	3	5
	No Result	1	1	2
	Submission		1	2
	Total	8	4	12

Accuracy 66.7%

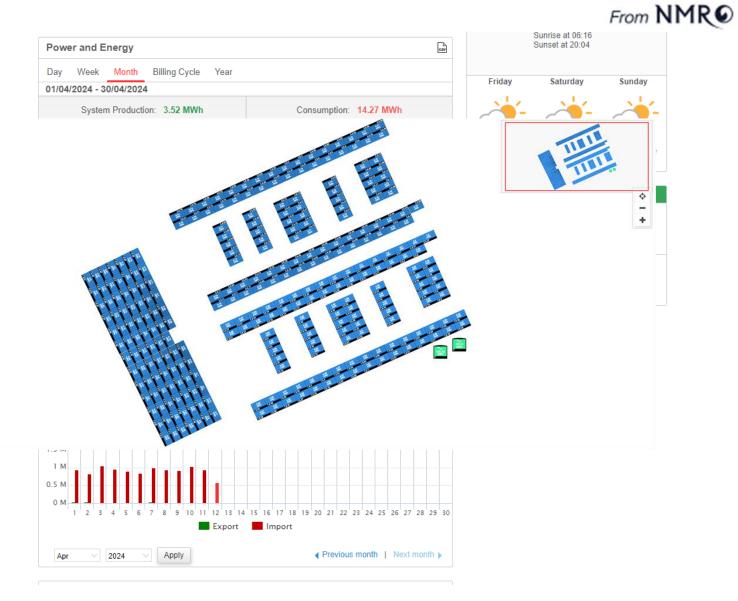
Participant: I		Expected result for test		
		Positive	Negative	Total
	Positive	16	0	16
Participant	Negative	0	8	8
Result	Total	16	8	24

Accuracy 100.0%

Sustainability: Solar energy







Sustainability: pot recycling CNV2



Investment in 20 cubic yard compactor on site

Drop from weekly collections to once every 3 to 4 weeks

100% recycled - zero to landfill

Aiming for first pick up in early May



Take home messages



- NMR is under new ownership – which strengthens our commitment to supporting the dairy supply chain

- Warranty management, due diligence surveillance services and the AB proficiency testing scheme are all ways in which we work in partnership with the industry

- Future efficiencies will be secured through better data management and exchange – watch this space...

- Our door is open for lab visits etc





Any questions?

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