

Less disease
More milk

BoviLab

Portable Blood Analyzer



**Handheld device that brings you
Lab-quality results anywhere.**

Main Features

Hard case included

Data Transmission

High Accuracy

Portable

Whole blood test

6 analytes in 6 mins

FEATURE

01

Max 8 analytes in 6 mins including NEFA and BHBA

FEATURE

02

Wide operating temperature range: -10~40°C/ 14~104°F
5~32°C/41~89.6°F is appropriate (accuracy guaranteed) range

FEATURE

03

Portable, suitable for on-Farm trouble shooting

FEATURE

04

Easy to use with strong durability and minimal maintenance



Built-in data storage:
up to 1,000 results



With the commercial Bluetooth dongle,
analysis results can be checked online.
※dongle is not included



With the commercial Bluetooth printer,
analysis results printing is available,
※printer is not included

The Wi-Fi Alliance owns and controls the "Wi-Fi certified" logo, a registered trademark.
BLUETOOTH SMART is a trademark and brand of Bluetooth SIG, Inc.

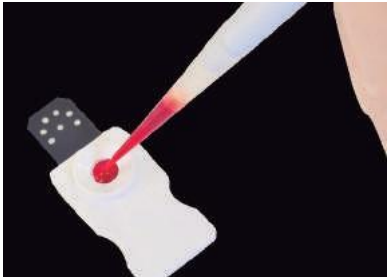
3 Simple Steps!

STEP 01



Collect blood sample

STEP 02



Drop sample onto slide
(120 to 150 μ L)

STEP 03



Insert the slide, press Anagnosis,
input Cow ID and touch Start

Analyze blood samples on site without a centrifuge or forwarding it to a laboratory
(if samples should be transported, store them in heparin tubes and cool box, test within 3hours from the collection)

Specification

CATEGORY	TITLE	EXPLANATION
DEVICE	Size and weight	150 mm(w)×168.7 mm(d) × 168.8 mm(h), 2.2 kg
	Multi-testing	Up to 6 analytes per slide
	Calibration	Not required (Automatic calibration)
	Appropriate temperature & Operational temperature	5~32 °C / 41~90 °F & -10~40 °C/14~104 °F
	Result	Within 6 minutes per analysis
	Language	English, Japanese
	Compatibility	Wi-Fi, USB memory, Bluetooth printer
	Built-in memory	Up to 1,000 results
	Adopter	INPUT : AC100-240 V, OUTPUT : DC12 V / 24 V
SLIDE	Size and weight	20 mm × 50 mm, 2.3 g
	Storage temperature	2~8 °C / 35.6~46.4 °F
	Sample type	Whole blood, serum and Plasma
	Blood sampling	Drop 120~150 μ L of sample to the guideline in the well

Evaluation

1. Research in Veterinary Science in March 2021, 135:247-252p.

Performance evaluation of a newly designed on-farm blood testing system for determining blood non-esterified fatty acid and β -hydroxybutyrate concentrations in dairy cows.
published by Rika Fukumori, Shin Oikawa (Rakuno Gakuen Univ. Hokkaido, Japan),
Garrett R. Oetzel(University of Wisconsin Madison), Taguchi Takayuki(I.B Co., Ltd.).

2. Research of Veterinary Science in May 2024, Volume 171.

Validation of an on-farm portable blood analyzer for quantifying blood analytes in dairy cows.
published by Kendall Sophia, Green Sophia, Edward Sophia, Oetzel Garrett, White Heather
(University of Wisconsin- Madison)

15 Analytes

Analyte	Formal Name	Analyte	Formal Name
NEFA	Non-esterified fatty acid	CREA	Creatinine
BHBA	β-hydroxybutyrate	GGT	γ-glutamyl transpeptidase
ALB	Albumin	GLU	Glucose
ALT	Alanine aminotransferase	IP	Phosphorus
AST	Aspartate aminotransferase	Mg	Magnesium
BUN	Blood urea nitrogen	TC	Total cholesterol
Ca	Calcium	TP	Total protein
CK	Creatine kinase		

Slide Type

Slide name	Analyte 1	Analyte 2	Analyte 3	Analyte 4	Analyte 5	Analyte 6	Calculation 1	Calculation 2
Transition	BHBA	BUN	Ca	IP	Mg	NEFA	Ca/Mg ratio	
Liver Function2	AST	ALB	GLU	GGT	TC	TP	GLB	A/G ratio
Downer Cow	AST	BUN	Ca	CK	GLU	IP		
Downer Cow3	AST	Ca	CK	IP	Mg	NEFA	Ca/Mg ratio	

In addition to 6 analytes measured by BoviLab, results of undermentioned analytes are additionally displayed on the result screen by the calculation between specific analytes.

Globulin = Total protein – Albumin

A/G ratio= Albumin / Globulin

Ca/Mg ratio= Calcium / Magnesium

Manufacturer



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