Lactate Scout **Vet**
Instruction manual

EKF
Diagnostics

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Lactate Scout Vet instruction manual

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Contents

Description

- The Lactate Scout Vet measuring system is intended to measure lactate concentration in animal capillary and whole blood.

- The Lactate Scout Vet measuring device can only be used with Lactate Scout Test Strips.

- Lactate Scout Test Strips are designed for single use.

- Lactate Scout Vet measuring system is not intended for use in humans.

Safety instructions

PLEASE READ THE INSTRUCTION MANUAL BEFORE USE AND KEEP IT IN A SAFE PLACE!

Failure to comply with any text marked as a "**WARNING**" can result in serious damage to health.

Failure to comply with any text marked "**ATTENTION**" can lead to incorrect tests or damage to the device.

Please ensure you observe the separate warning and safety instructions specified on the labels of the batteries and lancets that you are using.

 WARNING

There is a risk of small parts being ingested, such as batteries, Test Strips, screw caps or drop dispensers on check solution bottles.

The Lactate Scout Vet measuring device and all related accessories must be kept out of the reach of children.

WARNING

The method for obtaining blood samples for lactate tests involves a risk of infection. Test Strips, lancets, lint free cloths and measuring devices contaminated with blood carry a risk of infection.

Please make sure that lancets and Test Strips are intact and unused before use.

Make sure you dispose of any used Test Strips, lancets and lint free cloths safely.

WARNING

Lactate Scout Vet is intended for professional veterinary use. Blood collection from pets is at your own responsibility. If you want to take a blood sample from your pet yourself, ask your veterinarian for advice how to measure lactate levels at your pet in advance. You will get information about the most appropriate sites for blood sampling

⚠ **ATTENTION**

Make sure you only use accessories that have been provided or recommended by the manufacturer.

The measuring device must not be used if it is not functioning correctly or has been damaged.

Your warranty will be voided and all liability claims will be excluded if the housing of the device is forcefully opened.

Required accessories

To carry out lactate measuring the following accessories are needed:

- Lactate Scout Vet measuring device
- Lactate Scout Test Strips
- Sterile needles and blood tubes for venous sampling
- Sterile lancets for capillary sampling
- Lint free cloths or paper tissues
- Clean water

Please note that sterile lancets, blood drawing equipment, cloths, and water are not included in the scope of delivery and need to be provided separately.

To carry out functionality tests, Lactate Scout Check Solutions are available in different concentrations (see chapter 8)

1.1 Lactate Scout Vet measuring device

**Opening (1A)** for inserting the Test Strip

Display (1B) Display screen
will indicate the following:
device ready, blood lactate concentration, warning
messages, configuration options and status
information.

Keypad for operating the measuring device

- **Arrow keys (1C)**:
  - for moving between menus, sub-menus and
    menu items
  - for adjusting values

- **OK button (1D)**:
  - for selecting menus, sub-menus and
    menu items
  - for confirming choices
  - for activating and deactivating
    configuration mode

- **Back button (1E)**:
  for undoing the last step/cancelling

- **Temperature sensor (1F)**:
  for reading the ambient temperature

1.2 Lactate Scout Test Strip

The Test Strip has an opening for the blood
sample **(2A)**. The contacts **(2B)** connect the
Test Strip to the measuring device.
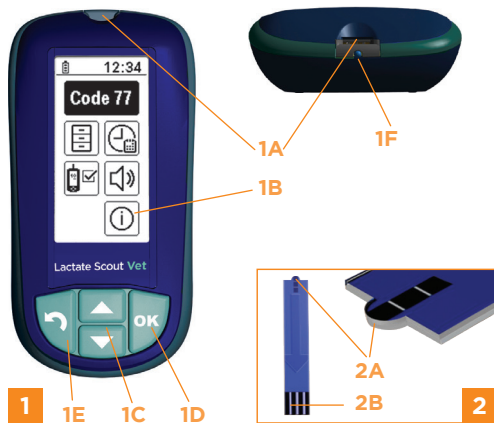
1.3 Inserting the batteries

The Lactate Scout Vet requires two CR2450 (3V lithium button cell) batteries.

The device is supplied with batteries included. Firstly, remove both of the battery insulating strips **1** . The device is now ready to use.

Replacing Batteries

The measuring device must be turned off to replace the batteries. Gently push the battery cover on the back outwards. Remove the discharged batteries. When inserting the new batteries, ensure that the polarity is correct.

Push the battery cover back in until it completely locks into place **2** .

If the time to replace the batteries exceeds 30 seconds, the date and time setting will be lost and must be re-entered. However, any stored data and settings will be retained.

PLEASE NOTE
Used batteries must not be disposed of with household waste. End users should follow local regulation regarding the recycling of batteries to help reduce the environmental impact that waste batteries have on our planet.

1.4 Switching the device on and off

The Lactate Scout Vet has a Configuration and Display mode and a Measuring mode, both of which can be switched on and off independently.

Configuration and Display mode can be switched on or off by holding down the OK button for two seconds.

Measuring mode is switched on when a Test Strip is inserted into Lactate Scout Vet regardless of the mode already selected. Removing the Test Strip from the device will switch off the Lacate Scout Vet.

The device can be switched off by holding down the OK button for two seconds.

The device will switch itself off if it is not used for two minutes in Configuration and Display mode or if the device is not used for two minutes while a Test Strip is inserted.

1.5 Display

An information line will be displayed in both modes at the top of the display when the device is switched on. This line provides information about the battery level, the current time and the active functions of the measuring device **(3A)**.

In Configuration and Display mode, a symbol line will also be displayed beneath the info line **(3B)**. This line uses corresponding symbols to indicate the Configuration and Display mode menu/sub-menu currently selected.

If symbols or numbers have a black background, this means they can be selected and confirmed.

If symbols or numbers have a grey background, this means they cannot be selected and confirmed. The associated function is activated in the main menu (Chapter 3).

1.6 Code setting for the Test Strips

Test Strips exhibiting a two-digit code which must be entered when setting up the Lactate Scout Vet or when using Test Strips from a new Test Strip container; this code is printed on the label of the Test Strip container.

First switch on the Configuration and Display mode by holding down the OK button for two seconds **4** . Press the OK button again. The code setting menu will open. The symbol line will display "CODE" **5** .

Enter the two digits of the Test Strip code, starting from the left. Enter the digits of the code using the arrow keys and confirm by pressing the OK button **6** - **7** . A signal tone will confirm that the code has been set. The Lactate Scout Vet measuring system is now ready to take measurements using Test Strips with this code **8** - **9** .

You can now either insert a Test Strip or switch off the device.

2 Performing a test

2.1 Preparing for a test

Remove a Test Strip from the container. Make sure you do not touch the opening for the blood sample **1** . As soon as you have removed the Test Strip, insert it into the measuring device opening in the direction of the arrow until you can feel resistance. **2** . The contacts must be facing up.
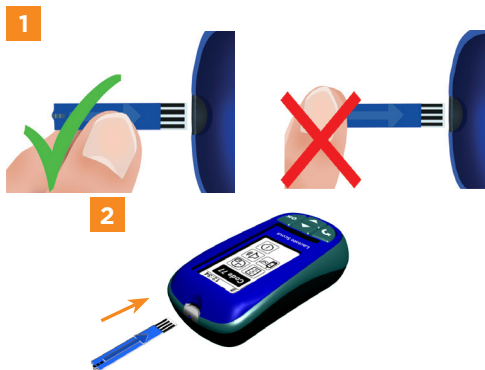
The display will briefly show the current code setting. A blinking drop symbol and an animal icon will then be displayed. Use the arrow keys to change the animal icon to the species desired. The ambient temperature of the measuring device will be displayed beneath the info line **3** .

⚠️ **ATTENTION**

Before you use a Test Strip from a new Test Strip container, you must check that the code on the label is the same as the code currently configured in the device. If the code does not match, then it must be reconfigured (see section 1.6).

⚠️ ATTENTION

The Test Strip and the Lactate Scout Vet must be at the same temperature when performing a test. If you take the Test Strip container out of the refrigerator, you must wait for at least 20 minutes until the Test Strip container has reached the ambient temperature before you opening the container. If you take the Test Strip container out of the freezer, you must wait for at least 2 hours until the Test Strip container reaches ambient temperature. Only remove Test Strips to be used immediately for testing purposes. Reseal the container immediately after removing Lactate Scout Test Strips

After removing Lactate Scout Test Strips from the container measurement of the Test Strips must be accomplished within 2 minutes. Please do not store Lactate Scout Tests Strips for more than 2 minutes outside the storage container or at relative humidity >85%.

2.2 Blood collection and test

Wash the sample site with clean water. Dry the sample site. In order to take a capillary blood sample, puncture the site using a sterile lancet.

Wipe away the first droplet of blood. Apply gentle pressure to the puncture site. The second droplet must be large enough to fill the measurement chamber of the Test Strip in one go.

⚠️ WARNING

Avoid pressing on the puncture site too heavily as sweat and/or tissue fluid can merge with the droplet of blood and interfere with the test result.

The droplet of blood must not run. Position the tip of the Test Strip on the sample site and the Test Strip will draw blood into the measuring chamber **4**.
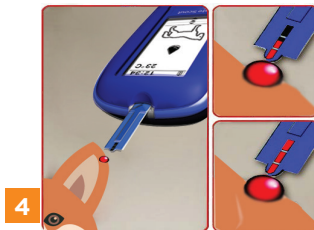
⚠️ **ATTENTION**

The Test Strip must draw the blood in one smooth flow. The device must therefore be kept steady when taking the sample. Failure to do so results in the risk of insufficient filling of the Test Strip.

To measure venous blood, aliquot a small sample (50-100 μL) from a blood tube (fresh or heparinized (lithium heparin) onto a hydrophobic surface, eg plastic film or aluminium foil and bring the Test Strip tip to the surface of the droplet. The Test Strip will draw blood into the measuring chamber and when the measurement chamber is full, an acoustic signal will sound and the test will begin. A circular symbol with a progress bar will be displayed **5**. After ten seconds, a second acoustic signal will sound and the test result will be displayed in the measurement unit "mmol/L". The allocated memory space number will be displayed next to the memory symbol. The test result is stored along with the date and time of the test and the memory space number **6**.

WARNING

Lancets and Test Strips may only be used once.

Used lancets and Test Strips carry a risk of infection. Ensure any used lancets and Test Strips are disposed of safely in waste along with contaminated lint free paper wipes.

Observe local laws and regulations for disposal of potentially contaminated equipment.

2.3 Checking the code setting

The code is displayed briefly when you switch measuring mode on . If more than 24 tests are performed with the same code, a reminder to check the code will be displayed for three seconds . Pressing the OK button within three seconds will take you to the code configuration menu.
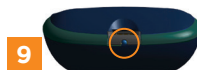

2.4 Checking the ambient temperature

To ensure consistent results are achieved under different climatic conditions, the measuring device is equipped with a temperature sensor. The temperature sensor is located underneath the opening for the Test Strips .

⚠️ **WARNING**

Do not touch or cover the temperature sensor with your hand. Failure to do so may result in the risk that the temperature sensor will read the ambient temperature incorrectly and report incorrect test results.

3 Settings, functions and displays

Settings can be changed in Configuration and Display mode. In order to access Configuration and Display mode, there must not be a Test Strip inserted in the measuring device. The Configuration and Display mode can be switched on or off by holding down the OK button for two seconds. An acoustic signal will sound, and the main menu will be displayed along with its symbols. The symbols display the sub-menus **1** :

- Stored test results **(1A)**

- Functionality test **(1B)**

- Test Strip code configuration **(1C)**

Choose a symbol to move to the associated sub-menu:

- Set Date Time **(1D)**

- Set Volume **(1E)**

- Info **(1F)**

Briefly press one of the two arrows to select a symbol. The selected symbol is displayed with a black background. Pressing the OK button enters the sub-menu. Once changes to the configuration are complete, confirm selection by pressing the OK button to return to the main menu. Pressing the Back button will also return to the main menu but changes to configuration will not be saved.

3.1 Volume control

If you choose the "Loudspeaker" symbol in the "Device settings" menu and confirm by pressing the OK button **2**. The following settings are available: **3**.

- mute **(3A)**
- medium volume **(3B)**
- loud **(3C)**

Set the volume using the arrow keys and confirm your selection by pressing the OK button. Once you have confirmed your selection, you will be taken directly back to the Device Settings menu.
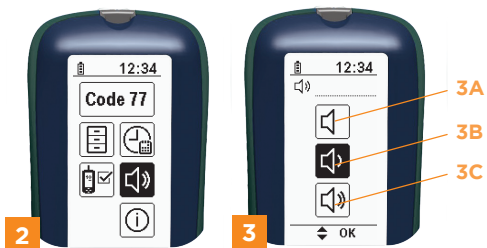
3.2 Date and time settings

Select "Date and Time Settings" symbol in the Device Settings menu by pressing the OK button 1 . To set the year, use the arrow keys to select the correct year 2 and confirm by pressing the OK button. Once the year is confirmed, set the month 3 by using the arrow keys and confirm with the OK button. Next, select the day 4 . Using the arrow keys and confirm with the OK button. To set the time format, use the arrow keys to move between the following settings 5

• 24-hour clock

• 12-hour clock

Next, set the hours and minutes using the arrow keys 6 and confirm by pressing the OK button. After confirming the selection, you will return to the Device Settings menu.

If the date and time are not (re)set when the device is configured or reset, the time will be displayed in the info line with a black background.

3.3 Displaying information about the device

If you choose the "Info" symbol in the Device Settings menu **7** by using one of the two arrow keys and confirm your selection by pressing the OK button, you will be shown the following information about the device, firmware and device components. If you use the arrow keys to browse through the pages in this menu item, then the following information will be displayed:

- *Serial number of the measuring device*
- *Firmware version of the measuring device*
- *QR link to the Lactate Scout Vet website*
- *Licensing information on the font used*

Once you have pressed the OK button again, you will be taken directly back to the Device Settings menu.

3.4 Functionality test

The functionality test is used to check the correct functioning of the Lactate Scout Vet measuring system. If there are any doubts regarding the accuracy of the test result or the correct functioning of the measuring device, you must perform a functionality test. Please use the Lactate Scout Check Solution for the functionality test. The label on the Check Solution bottle states the range of the Lactate Scout Check Solution.

The check solution is available in the following concentrations:

8.9 - 1 1.1 mmol/L   (display: 10 mmol/L)

4.5 – 5.6 mmol/L   (display: 5 mmol/L)

The Check Solution can be used for a period of three months after initial opening for the first time. Once opened, ensure the check solution is stored tightly closed between 15 – 25°C.

For functionality test, Check Solution, Test Strip and measuring device must be at the same temperature.

⚠️ **ATTENTION**

Never bring the opening of the Lactate Scout Check Solution bottle directly into contact with the Test Strip. Failure to do so will contaminate the contents of the bottle and render it unusable.

⚠️ **WARNING**

Do not swallow the Lactate Scout Check Solution.
*Avoid contact with mucous membranes.*

Risk of small parts being ingested:
keep the Lactate Scout Check Solution out of the reach of children.

Select the Functionality test **1** sub-menu in Configuration and Display mode.
Then select the value of the Check Solution **2** . The measuring device will then ask you to insert a Test Strip **3** . For testing purposes, the target value will be displayed with the measurement unit (mmol/L) in the symbol line **4** .

The configured code will be displayed briefly after you have inserted the Test Strip. This code must also match the code printed on the Test Strip container for the functionality test as well. The measuring device will then ask you to fill the Test Strip with Check Solution **4** .

Open the Check Solution bottle and wipe the opening to make sure it is clean.
Dispense and discard the first droplet.
Dispense a second droplet onto a clean non-absorbent surface (eg aluminium foil). You can use your thumbnail for this purpose.
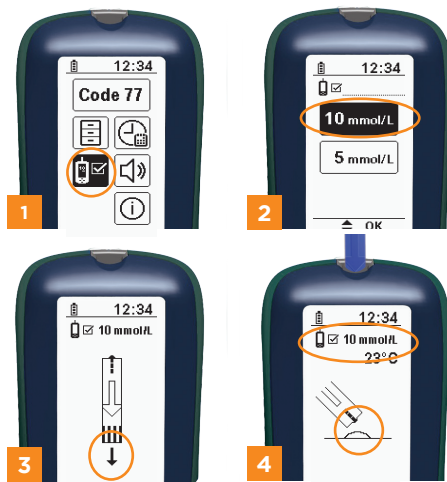
Move the measuring device with the inserted Test Strip to the droplet. Allow the droplet to fill the measurement chamber until the opening for the blood sample is immersed in the droplet. An acoustic signal will sound when the chamber has filled and the test will begin.

You can track the progress of the test on the display `5`. The measured lactate concentration will be displayed and if the result is within the permissible tolerance range, a tick will be shown in the centre of the display `6`. Indicating that the device and Test Strip are functioning properly. If the result is outside of the tolerance range, an error message will be displayed `7` (see chapter 5 on page 30, "Functionality test not successful").

The device will turn off when the Test Strip is removed.
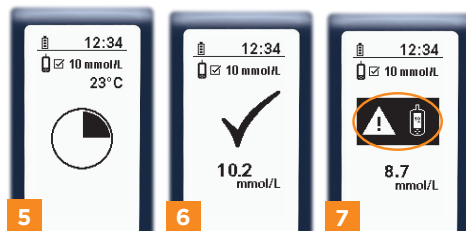
3.5 Displaying stored values

Select the "Memory" symbol in the main menu by using the arrow keys and confirm by pressing the OK button **1**. Once in the memory, the most recent result will be displayed.

The memory symbol and the memory space number are displayed in the symbol line and the date and time of this measurement are displayed at the bottom section of the screen **2**.

Use the arrrow keys to navigate the stored test results. To move quickly through stored results, hold down the arrow key **3**.

3.6 Battery level indicator

The battery level is monitored by the measuring device. The battery level is shown in the info line. There are three different display options available:

- Batteries are full **1**

- Batteries are partially discharged **2**

- Batteries are almost fully discharged and need to be changed **3**

If the batteries are fully discharged, the measuring device will no longer turn on. An error message will be displayed as shown below.

🔋 12:34 **1**

🔋 12:34 **2**

🔋 12:34 **3**

4 Storage, cleaning and disposal

The Lactate Scout Vet is an electronic measuring device and must be handled and stored with care.

You must ensure the measuring device is protected against liquids, moisture, prolonged solar radiation and excessive cold or heat (below -20° C and above +50°C).

Heavy mechanical loads, improper handling and contamination may impair the functionality of the device or render it completely inoperable.

Ensure that no liquid or dirt enters the inside of the device through the openings (opening for Test Strip and battery housing).

Any blood, check solution, dust or other contaminants on the housing must be cleaned using a soft, lint-free cloth or tear-resistant cellulose cloth (e.g. paper towel). To do this, moisten the cloth with a mild cleaning agent. You can use water with a small amount of liquid detergent. Clean the measuring device before wiping it dry.

 WARNING

Used measuring devices carry a risk of infection.

Make sure you wear gloves when cleaning/disinfecting a used measuring device.

For disposal of the measuring device, remove the batteries. Because of the risk of infection stated in 'Warnings' above and on page 8 of this manual, the device should not be disposed of as electrical and electronic waste. When the service life of the Lactate Scout Vet is over, dispose of the device observing the relevant regulations, particularly if blood samples from animals carrying infectious diseases were tested. Alternatively, the Lactate Scout Vet can be sent back to the manufacturer for disposal. Please contact EKF Technical Support Team.

5 Error messages and warning indicators

Errors/warnings	Description and potential causes	Solution
	Test Strip error Test Strip damaged, improperly stored (outside of the container/in an open container, exposed to sunlight), or already used.	Use a new Test Strip from a correctly stored container.
	Error when filling the Test Strip Blood droplet too small or has run, contact time of Test Strip with blood droplet too short, interrupted sample absorption or Test Strip pressed against skin.	Repeat the test with a new Test Strip; to obtain a relatively large droplet, attempt to improve capillary circulation (by gently massaging the puncture site).
	Temperature error The temperature is outside of the operating range.	Ensure that the ambient temperature is within the specified operating range of the measuring device.

Errors/warnings	Description and potential causes	Solution
	Battery error The batteries are discharged or expired or there is possible corrosion of the battery contacts.	Change the batteries. If the battery contacts are corroded, please contact the EKF Technical Support team.
	Test result too low The test result is below the test range of the Lactate Scout Vet; Water used for washing may have diluted the droplet at the puncture site.	Repeat the test with a new Test Strip. Check the code configuration. Follow the instructions for performing the test. Dry the puncture site well before collecting the blood. Use the Check Solution to perform a functionality test. Please contact the EKF Technical Support if there is an error message.
	Test result too high The test result is above the test range of the Lactate Scout Vet Perspiration on the skin containing a significant proportion of lactate may have been included in the blood droplet.	Repeat the test with a new Test Strip. Check the code configuration. Follow the instructions for performing the test. Carefully wash perspiration away from the intended puncture site and dry your hands well.

Errors/warnings	Description and potential causes	Solution
	Functionality test not successful Check solution has been used more than three months after the bottle was opened or is past its expiry date. Check solutions not stored correctly. Test Strips were not stored correctly or have exceeded their expiry date.	Repeat the functionality test with new materials after checking the code. Follow the instructions for performing the functionality test. Make sure that the target concentration you have selected in the menu matches the concentration of the Check Solution. If the problem persists, please contact the EKF Technical Support team.
	Electronic error inside the device.	Turn the device off and on again. If the problem persists, please contact the EKF Technical Support team.
	Storage error	Please contact the EKF Technical Support team.

Errors/warnings	Description and potential causes	Solution
Code check	**Brief code "reminder"** The "Code" symbol with a Test Strip container and a question mark behind it is displayed for three seconds when you insert a Test Strip. You need to confirm or change the code after 24 tests.	Confirm the code if it remains the same. Alternatively enter the code for the new Test Strip container.
Time display	**Time displayed with black background** The date and time were not set when the device was configured/reset.	Set the date and time.
Device fails to turn on	**Device fails to turn on** Device fails to turn on, either in configuration and display mode or in standby mode.	Change the batteries. If the problem persists, please contact the EKF Technical Support team.
Measurement mode cannot be configured	**No droplet symbol displayed** Device is not switched on as Test Strip not inserted properly.	Insert Test Strip with the black contacts facing up until it clearly locks in place (see Item 2.1).

Errors/warnings	Description and potential causes	Solution
No acoustic signal	**No acoustic signal in any mode** Volume was muted in the "Configuration and Display" menu.	Open the "Volume" menu and change the settings.
Device turns itself off	**Device turns itself off** The display shows a bright EKF logo on a black background. This happens automatically after two minutes of inactivity. Ambient temperature is too low or batteries are empty. Display malfunctioning. Defective electronics or mechanical damage.	Restart the measuring device. Make sure that the ambient temperature is within the operating range of the measuring device. Change the batteries. Please contact the EKF Technical Support team.
Defective test results	**Values seem too high/too low** Perspiration, intended puncture site not washed correctly or perspiration occurred due to a delay between washing and collecting the blood. Intended puncture site was still wet after washing.	Repeat the test with a new Test Strip. Check the code configuration. Precisely follow the instructions for performing the test. Carefully wash perspiration away from the intended puncture site and dry your hands well. Use the check solution to perform a functionality test. Please contact the EKF Technical Support team if there is an error message.

Errors/warnings	Description and potential causes	Solution
Slow update of the screen content	**Slow update of the screen content** The Lactate Scout Vet uses an e-paper display. Please note that it may take some time for the display to update, depending on the ambient temperature. This is normal for e-paper displays.	

6 Technical specifications

Parameter	Specification
Type of device	Lactate Scout Vet - hand-held device for measuring blood lactate
Sample volume	0.2 μL
Measuring range	0.5 mmol/L - 25.0 mmol/L
Measuring principle	Enzymatic amperometric determination of lactate using lactate oxidase
Test duration	10 seconds
Measurement temperature range	+10 °C - +45°C
Humidity	10 - 85% relative humidity (max. 2 minutes for Test Strips)
Storage temperature	-18 °C - +8 °C (Test Strips in container) and/or -20 °C - +50 °C (device)

Parameter	Specification
Max. elevation for use	up to 4,000 metres
Data storage	500 lactate test values with date and time
Power supply	2 x 3 V CR2450 (3V, lithium batteries, button cell batteries)
Device dimensions	91 mm (L) x 46 mm (W) x 21 mm (H)
Weight	60 g (including batteries)

7 Symbols

Labels on Test Strip containers, device labels, in accompanying documentation and on packaging

Symbol	Meaning
$C\epsilon$	Product meets the requirements of the applicable Directives
🏭	Manufacturer
SN	Serial number
⚠	Attention, consult accompanying documentation, observe safety instructions
☣	Biological risks
📖	Follow instructions for use
⊘	Designed to be used once only
⧗	Expiry date YYYY-MM
LOT	Batch no.
🌡	Storage temperature range

Symbol	Meaning
$\overline{\underline{\Sigma}}$	Test Strip number
☀	Do not expose to direct solar radiation
☂	Protect against liquid
⎓	Direct current
🗑	Used batteries must not be disposed of with household waste

8 Consumables and accessories

The following consumables may be used with the Lactate Scout Vet:

Item	Order No.
Lactate Scout Test Strips (24 test strips in a vial)	7023-3421
Lactate Scout Check Solution: DuoPack of 2.5 ml bottles (2 x 1 units) with 4.5 - 5.6 mmol/L and 8.9 - 11.1 mmol/L lactate	7023-6173

Additional product information, literature and references can be found online at www.ekfdiagnostics.com

Lactate Scout
Test Strips

To find out more information please visit: **www.lactatescout.info**

Sales and service

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Ebendorfer Chaussee 3,
39179 Barleben, Germany
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email: support@ekf-diagnostic.de

www.ekfdiagnostics.com

SensLab GmbH
Bautzner Straße 67
04347 Leipzig, Germany
phone: +49 (0)341 234 1841

www.senslab.de

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en Product information about the Lactate Scout Test Strips for single, disposable use with Lactate Scout Vet analyzers to determine lactate in whole blood. Please read carefully before use.

INTENDED USE

Lactate Scout Test Strips are only to be used with the Lactate Scout Vet analyzer to determine the lactate concentration in blood of animals. Lactate Scout Test Strips are for single use only. Lactate Scout Vet measuring system is not intended for use in humans.

WARNING NOTICES

Read the user manual of your Lactate Scout Vet analyser before using. Avoid any risk of Lactate Scout Test Strips being swallowed. Keep away from children. The handling of blood carries the risk of infections. Please ensure items containing or contacted by blood (such as Lactate Scout Test Strips, lancets and tissues) are disposed of safely and ensure that all items and devices that have been in contact with blood are disinfected properly.

STORAGE

Do not expose Lactate Scout Test Strips to moisture and direct sun light. Keep Lactate Scout Test Strips refrigerated. Store the Lactate Scout Test Strips in the original container only and within the specified temperature range of -18 °C / 0 °F to +8 °C / 46 °F. The expiration date of the Lactate Scout Test Strips on the label of the Lactate Scout Test Strips container must not be exceeded. Once the Lactate Scout Test Strips vial is opened, the Lactate Scout Test Strips are stable for 90 days or until the specified expiry date (which ever is sooner). Without refrigeration, store Lactate Scout Test Strips ≤ 25 °C / 77 °F for a maximum of 30 days. Transport and store the sensors in the original vial. Take out the required Lactate Scout Test Strips for immediate (< 2 min) use only and close the vial to keep the other Lactate Scout Test Strips protected. Before using refrigerated Lactate Scout Test Strips, keep the closed vial at ambient temperature for at least 20 min. Before using Lactate Scout Test Strips from deep freezer, keep the closed vial at ambient temperature for at least 2 hours. During use, the Lactate Scout analyser and Lactate Scout Test Strips should be at same temperature.

INTERFERENCES

Impurities such as sweat, alcohol or disinfectant on the skin may cause problems with the sample uptake or cause incorrect results. Ensure that the sample site is cleaned carefully with water and dried before puncturing. Use only fresh or heparinized (lithium heparin) blood samples for measurement. The intake of drugs such as paracetamol or diseases, infections, diets, carbohydrate-rich food or stress can influence individual test results.

HANDLING (FOR SINGLE, DISPOSABLE USE)

Insert a new, unused Lactate Scout Test Strip into the analyser. Hold the test strip in the middle with clean, dry fingers and do not touch the tip. Upon insertion of the test strip, the two-digit test strip code will be displayed briefly. Ensure that this code is identical to the code printed on the Lactate Scout Test Strips vial. Only use strips that are within their expiry date. Thoroughly clean and dry the intended sampling site. Puncture the sampling site by using a sterile safety lancet. Blot away the first drop of blood and use the second drop for the measurement. Lower the analyser with the tip of the inserted test strip to the fresh drop of blood. Do not touch the skin. The required sample volume (0.2 µl) will be drawn into the test strip automatically and the measurement will commence. The result will be displayed after 10 seconds. By removing the test strip, the result will be stored automatically (including date, time and animal species) and the analyser will switch off.

Error messages: Measurement results outside the measuring range (<0.5 mmol/L and >25.0 mmol/L) are marked. In case of faults or technical problems, error messages appear. For detailed descriptions of the indications and error messages, refer to the Lactate Scout Vet user manual.

TECHNICAL DATA

Measurement method: Enzymatic-amperometric detection of lactate.

Reagent per test strip: Lactate oxidase, electron mediator, additives. Sample volume: 0.2 µL

Measuring range: 0.5 - 25.0 mmol/L

Lactate Scout
Check Solution

To find out more information please
visit: **www.lactatescout.info**

Vertrieb / Sales

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en — Product information about Lactate Scout Check Solution for use with Lactate Scout Vet analyzers and Lactate Scout Test Strips. Please read carefully before using.

INTENDED USE
Lactate Scout Check Solution is intended to be used together with the Lactate Scout Vet analyzers and the Lactate Scout Test Strips to check the general functionality and accuracy of the measuring system. No other control materials are suitable for use with the analyzer.

WARNING NOTICES
Read the user manual of your Lactate Scout Vet analyzer before using. **Do not ingest the Check Solution. Keep the Check Solution bottle tightly closed. Keep away from children.**

The Check Solution contain a very low concentration of a toxic substance, which provides no health risk, avoid ingestion or contact with mucous membranes. If in doubt after contact, contact a doctor. The Check Solution contain buffer solution, additives and defined lactate concentrations.

STORAGE
Keep the Check Solution protected from light. Store Lactate Scout Check Solution between +15°C/59°F and +25°C/77°F. Do not freeze Lactate Scout Check Solution. Transport and store the Check Solution only in their original bottles. Do not fill up, dilute or mix the Check Solution. After use, close the Check Solution bottle immediately.

If stored properly, Lactate Scout Check Solution are stable for 90 days after first opening or until expiry date, whichever is sooner.

HANDLING
For detailed instructions, please refer to the "Functionality test" section of the user manual.

Label color:	Red	Yellow
Target value:	5 mmol/L	10 mmol/L
Tolerance range:	4,5 – 5,6 mmol/L	8,9 – 11,1 mmol/L
Lactate Scout Vet	Functionality test mode only (1)	Functionality test mode only (1)

(1): Display of the measurement result and evaluation (check mark or error message)

Ensure that two-digit test strip codes are entered correctly and match the code on the test strip vial. Ensure that test strips are stored and handled correctly. Do not use test strips or Check Solution that have passed their expiry date. **Never hold the Check Solution bottle directly to the test strip.** This will contaminate the Check Solution with test strip reagents and make the remaining Check Solution unusable.

Open the Check Solution bottle and wipe the opening. Hold the bottle downwards and press out a small drop. Discard the first drop and press a second drop onto a clean surface (e.g. a clean fingernail or a plastic foil). If using the fingernail, remove residual sweat by washing with water. Bring the analyzer with the inserted test strip close to the Check Solution drop until the test strip tip touches the drop. The required sample volume (0.2 μL) will be drawn into the test strip automatically. Measurement starts with an acoustic signal ("beep"), and the result will be displayed. Pull the test strip out of the meter and dispose of the test strip.

EVALUATION OF THE RESULTS
If the test is performed correctly, deviations within the specified tolerance range do not indicate any malfunctions of the measuring system.

TROUBLE SHOOTING
Should you experience repeated values outside those defined for the Check Solution and you have used correctly coded test strips, properly stored test strips and have followed the user manuals please contact EKF Customer Service: support@ekf-diagnostic.de, phone +49 39203 511-414