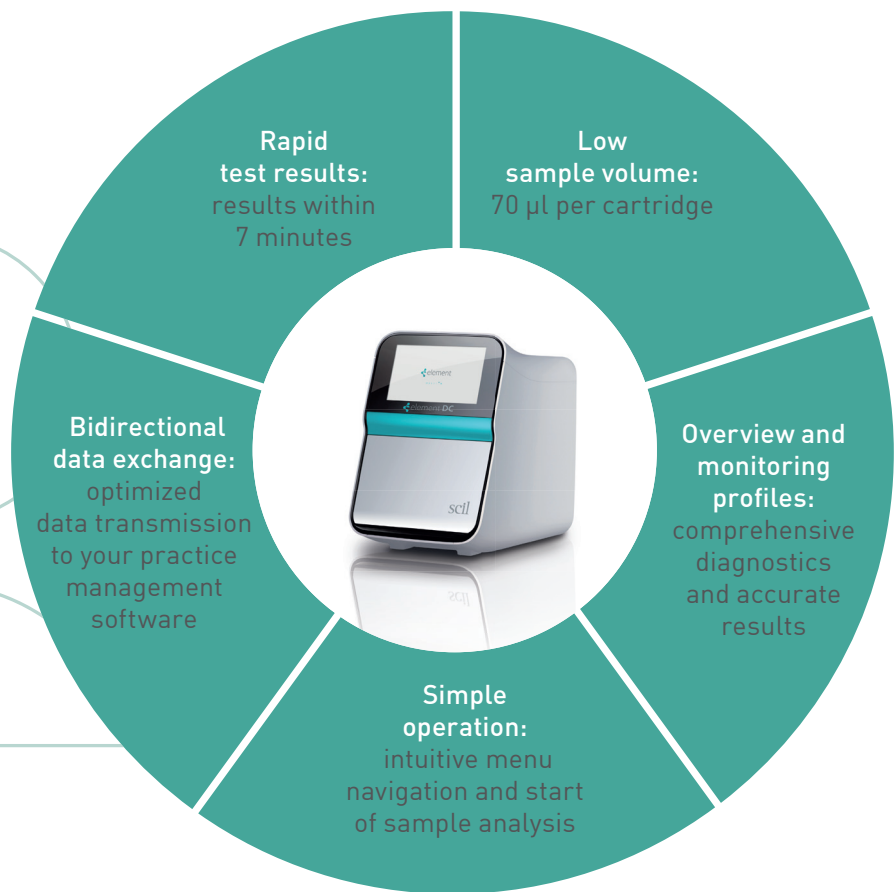


## TAKE HOME MESSAGE



## Element DC the next generation of dry chemistry



70 µL

MAINTENANCE FREE

BIDIRECTIONAL COMMUNICATION

PLASMA OR SERUM

OVERVIEW PROFILES

MONITORING PROFILES

# Element DC

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| <b>Measuring Principle</b> |                                                 |
| Sample Material            | Plasma or Serum                                 |
| Sample Volume              | 70 µl                                           |
| Measuring Time             | 7 - 10 minutes – depending on profile.          |
| Measuring Principle        | Absorption Photometry                           |
| <b>Technical Data</b>      |                                                 |
| Wavelengths                | 340, 405, 450, 505, 546, 600, 630, 850 nm       |
| Display                    | 4,3"-TFT-LCD-Color-Touchscreen                  |
| Data Storage               | 5.000 Results                                   |
| Results Output             | Display on touch screen and printout of results |
| Interface                  | LAN, WiFi                                       |
| Power Supply               | 100 - 240 V Power connection                    |
| Dimensions                 | 205 x 140 x 206 mm (H/B/T)                      |
| Weight                     | 2 kg                                            |

## Laboratory diagnostics simple and transparent



## Element SERIES



**FECAL AND URINE**  
Element AIM



**IMMUNOLOGY**  
Element i+



**HEMATOLOGY**  
Element HT5



**scil.**

Veterinary Medicine  
Medical Technology  
Veterinary Education  
Career

scilvet.com

CLINICAL  
CHEMISTRY



# Element DC

VETERINARY MICROFLUIDIC TECHNOLOGY –  
A TIME EFFICIENT SOLUTION

PRODUCT BROCHURE

 element DC



scil

Easy to use  
3 steps



1 PATIENT ID



2 INJECT SAMPLE  
Plasma or serum

70  $\mu$ L



3 INSERT  
CARTRIDGE

# Microfluidic technology at the service of veterinary biochemistry

Element DC is the result of two years of research and development based on **microfluidic technology**. A collaborative work between Heska and scil to offer a high-quality analysis.

**Microfluidic technology** is the art of manipulating very small quantities of fluids through a capillary system, the thickness of a human hair.

Thanks to this technology, Element DC provides a **reliable, small, mobile** device that requires much smaller volumes of sample in a closed system.

Let yourself be seduced by this concentrate of technology created with an **eco-responsible approach**.

# Clinical chemical analyzer in a compact format



## FAST



### RAPID TEST RESULTS

Results within 7 minutes.



### FULLY AUTOMATED OPERATION

Easy application of plasma or serum sample and loading of test cartridges.

## ACCURATE



### RELIABILITY

Automatically internal control of specimen: Hemolysis, Lipemia, Icterus. Self-calibration through QR code recognition.



### COMBINED PARAMETERS

Optimized combination of several parameters in specific cartridges (including diabetes with fructosamine, monitoring liver and renal) for high level of quality results.

## EASY



### ONLY 70µL OF SAMPLE

Small sample volume requirement makes testing more convenient.



### MAINTENANCE FREE

All chemical reactions are performed in the cartridge.

## COMPACT



### LIGHT AND SMALL

Thanks to the micro-fluidic technology, the *Element DC* is a light and small analyzer.



### BIDIRECTIONALITY

Optimal transmission of the data to the management software. Internal storage capacity up to 5.000 results.

# Test Cartridges | 27 Parameters 11 Profiles

|                 | Comprehensive Plus<br>17V | Electrolyte<br>4V | Pre-Surgical<br>10V | Large Animal<br>14V | Bovine<br>5V | Equine<br>16V | Kidney<br>8V          | Liver<br>11V | Kidney Monitoring<br>4V | Liver Monitoring<br>3V | Diabetes<br>4V |
|-----------------|---------------------------|-------------------|---------------------|---------------------|--------------|---------------|-----------------------|--------------|-------------------------|------------------------|----------------|
|                 | General                   |                   |                     | Large animal        |              |               | Organ / Disease focus |              |                         |                        |                |
| ALB             | •                         |                   | •                   | •                   |              | •             | •                     | •            |                         |                        |                |
| ALP             | •                         |                   | •                   | •                   |              | •             |                       | •            |                         |                        |                |
| ALT             | •                         |                   | •                   |                     |              |               |                       | •            |                         | •                      |                |
| AST             |                           |                   |                     | •                   | •            | •             |                       | •            |                         |                        |                |
| AMY             | •                         |                   |                     |                     |              |               | •                     |              |                         |                        |                |
| ALB/GLOB*       | •                         |                   | •                   | •                   |              | •             |                       | •            |                         |                        |                |
| BUN/CREA*       | •                         |                   | •                   | •                   |              | •             | •                     |              | •                       |                        |                |
| BUN             | •                         |                   | •                   | •                   |              | •             | •                     | •            | •                       |                        |                |
| Ca              | •                         |                   |                     | •                   | •            | •             | •                     |              |                         |                        |                |
| CHOL            | •                         |                   |                     |                     |              |               |                       |              |                         |                        | •              |
| CK              |                           |                   |                     | •                   | •            | •             |                       |              |                         |                        |                |
| Cl <sup>-</sup> |                           | •                 |                     |                     |              |               |                       |              |                         |                        |                |
| CREA            | •                         |                   | •                   | •                   |              | •             | •                     |              | •                       |                        |                |
| FRU             |                           |                   |                     |                     |              |               |                       |              |                         |                        | •              |
| GGT             | •                         |                   |                     | •                   |              | •             |                       | •            |                         | •                      |                |
| GLDH            |                           |                   |                     |                     |              | •             |                       |              |                         |                        |                |
| GLOB*           | •                         |                   | •                   | •                   |              | •             |                       | •            |                         |                        |                |
| GLU             | •                         |                   | •                   | •                   |              | •             | •                     | •            |                         |                        | •              |
| K <sup>+</sup>  |                           | •                 |                     |                     |              |               |                       |              |                         |                        |                |
| LIP**           | •                         |                   |                     |                     |              |               |                       |              |                         |                        |                |
| Mg              |                           |                   |                     |                     | •            |               |                       |              |                         |                        |                |
| Na <sup>+</sup> |                           | •                 |                     |                     |              |               |                       |              |                         |                        |                |
| Na/K*           |                           | •                 |                     |                     |              |               |                       |              |                         |                        |                |
| PHOS            | •                         |                   |                     |                     | •            | •             | •                     |              | •                       |                        |                |
| TBIL            | •                         |                   |                     | •                   |              | •             |                       | •            |                         | •                      |                |
| TP              | •                         |                   | •                   | •                   |              | •             |                       | •            |                         |                        |                |
| TRIG            |                           |                   |                     |                     |              |               |                       |              |                         |                        | •              |

\* calculated parameters.

\*\* based on excellent correlation to the DGGR reagent

