

## Element DC Veterinary Chemistry Analyzer



## Element DC® Veterinary Chemistry Analyzer Supplies

**NOTE:** For access to the full user manual for this product, please visit [www.heska.com/productmanuals](http://www.heska.com/productmanuals).

1. Remove supplies required for testing from refrigerator and warm to room temperature:

- Slides: warm 5 minutes in foil pouch.

**NOTE:** Remove only those needed for ordered tests.

- Reconstituted HESKA® Chemistry Control: warm 5 minutes.
- Electrolyte Reference Fluid: warm 5 minutes.

**NOTE:** Fill 0.5-ml Red Top tube; return remainder to refrigerator.



## Sample Collection and Handling

**NOTE:** Handle all samples and used materials as infectious waste. Wear gloves, glasses and other protective gear for your safety.

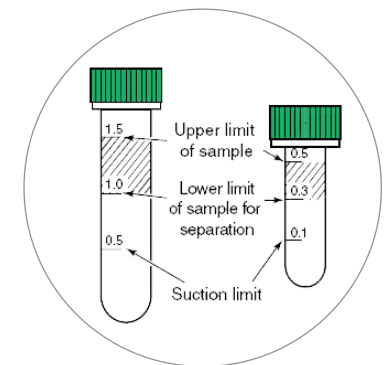
### Heska-Supplied Green Top (lithium heparin) Tubes

**NOTE:** Use with Heska-supplied centrifuge to save a step.

1. Draw patient sample using a 23-gauge or larger needle.
2. Remove needle from syringe to fill a 0.5-ml or 1.5-ml Green Top tube.

**NOTE:** Full 0.5-ml Green Top tube – 6-test profile plus electrolytes. Full 1.5-ml Green Top tube – adequate volume for all available tests.

3. Fill sample tube.
  - 0.5-ml tube: Immediately invert tube 5 to 6 times to ensure proper mixing with lithium heparin.
  - 1.5-ml tube: Fill with at least 1-ml of sample (second line); use standard inversion or rolling to mix.
4. Spin sample in Heska-supplied centrifuge for 3 to 5 minutes.



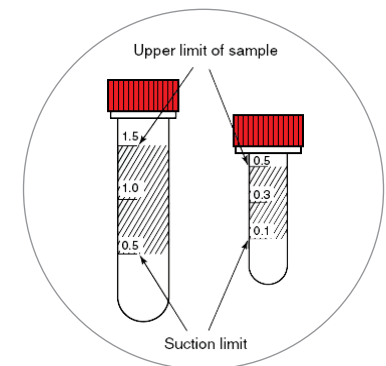
### Standard Green Top Lithium Heparin or Red Top Plain Tubes for Harvesting Plasma or Serum

1. Collect sample and separate plasma or serum as you normally would.

**NOTE:** Red Top tube serum samples: Allow 20 minutes to clot prior to centrifugation (45 minutes for equine blood).

2. Transfer plasma or serum to a 0.5-ml Heska Red Top tube for analysis.

**NOTE:** Full 0.5-ml Red Top tube – adequate volume for all available tests. The 1.5-ml Red Top tube should only be used if it can be filled to at least the 1-ml mark (second line).



## Basic Operation

**NOTE:** Handle slides by outside edges only.

1. If on Home screen, make sure [Measurement] is displayed before loading sample and slides.
2. If on Measurement screen, make sure [Ready to Test] is displayed before loading sample and slides.
3. Open Sampler Cover.
4. Remove slide cartridge from analyzer and place on counter top.
5. Place slides to be tested, barcode surface down, in slide cartridge and place weight on top.

**NOTE:** Electrolytes slide: must be on top of stack, barcode down, arrows facing right toward "2".

**NOTE:** If using an e-wrap panel, remove the clear plastic wrap.

6. Place slide rack properly in sample position with #2 matching #2 on analyzer.
7. Remove cap from sample tube and place in sample rack. Select correct sample rack for tube size (0.5-ml or 1.5-ml).
8. Touch **MEASUREMENT**, if on Home screen.
9. Touch **ID**. Input patient ID and touch **OK**.
10. If Species is not pre-selected, touch **ANIMAL** and select the appropriate species.
11. Ensure Sample Type reads Plasma/Serum.

**NOTE:** See next page for how to run a sample.



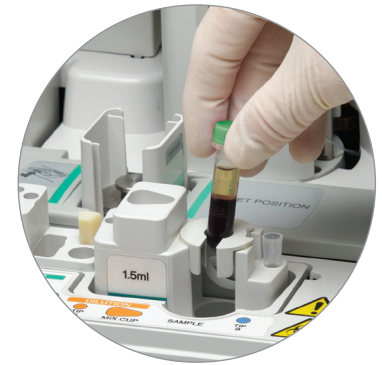
## Running Samples

**NOTE:** Must select correct sample rack for tube size (0.5-ml or 1.5-ml).

1. Place uncapped, spun Green Top or Red Top tube with transferred serum or plasma into the rack. Insert a fresh pipette tip into slot a.
  - For electrolytes: Place uncapped, Red Top tube filled with Reference Solution into the RE slot of analyzer. Place two fresh pipette tips into slots c and d.
2. Close analyzer cover and touch **START**.

**NOTE:** Do not open waste disposal drawer during sample processing.

3. When analyzer reads [Testing], [New Patient] can be selected to program the next ID/species.
4. Remove current sample and supplies. Discard as infectious waste.



## Calibration

This step can be done during warm-up [Lamp Warming-Up] or when in [Ready to Test] mode.

- For new slide lot #, insert calibration card into back of card reader on right side of analyzer and pull forward.
- Test name and lot number will appear on the LCD screen. Touch **OK**. The analyzer will store 2 lots per analyte or panel.



## Controls

**NOTE:** Always wear gloves when running controls.

1. Run HESKA Chemistry Control solution as you would a patient sample by transferring control solution into a 0.5-ml Red Top tube.

## Daily Maintenance

1. Keep lid closed except when loading and unloading slides.
2. Empty waste disposal drawer.
3. Change reference fluid every 8 hours. Recap tube between sample runs. Otherwise, change reference fluid every hour.
4. Remove sample tubes when finished testing.
5. Clean any spills.
6. Shut down analyzer every evening, if desired.

| Element DC Veterinary Chemistry Analyzer Slides |  | Quantity Per Box                 |
|---|--|----------------------------------|
| CAT 6330-ALB                                    | Albumin  | 24/box                           |
| CAT 6330-ALP                                    | Alkaline Phosphatase   | 24/box                           |
| CAT 6330-ALT                                    | ALT (GPT)  | 24/box                           |
| CAT 6330-AMY                                    | Amylase  | 24/box                           |
| CAT 6330-AST                                    | AST (GOT)  | 24/box                           |
| CAT 6330-BUN                                    | BUN  | 24/box                           |
| CAT 6330-CA                                     | Calcium  | 24/box                           |
| CAT 6330-CHOL                                   | Total Cholesterol  | 24/box                           |
| CAT 6330-CK                                     | CK   | 24/box                           |
| CAT 6330-CREA                                   | Creatinine   | 24/box                           |
| CAT 6330-GGT                                    | GGT  | 24/box                           |
| CAT 6330-GLU                                    | Glucose  | 24/box                           |
| CAT 6330-LDH                                    | Lactate Dehydrogenase  | 24/box                           |
| CAT 6330-LIP                                    | Lipase   | 24/box                           |
| CAT 6330-MG                                     | Magnesium  | 24/box                           |
| CAT 6330-NH <sub>3</sub>                        | Ammonia  | 24/box + NH <sub>3</sub> control |
| CAT 6330-PHOS                                   | Phosphorous  | 24/box                           |
| CAT 6330-TBILI                                  | Total Bilirubin  | 24/box                           |
| CAT 6330-TP                                     | Total Protein  | 24/box                           |
| CAT 6330-TRIG                                   | Triglycerides  | 24/box                           |
| CAT 6330-UA                                     | Uric Acid  | 24/box                           |
| CAT 6330-LYTES                                  | Electrolytes   | 24/box                           |
| CAT 6330-PRESURG/EWRAP                          | Pre-Surgical Panel (ALP, ALT, BUN, CREA, GLU, TP)                                    | 72 slides/box (12 panels/box)    |
| CAT 6330-EQ                                     | Equine Panel (ALB, AST, BUN, CA, CK, CREA, GGT, GLU, LDH, PHOS, TP, T-BILI)          | 24 slides/box (2 panels/box)     |
| CAT 6330-KIDNEY                                 | Kidney Panel (ALB, BUN, CA, CREA, PHOS, TP)  | 24 slides/box (4 panels/box)     |
| CAT 6330-LIVER                                  | Liver Panel (ALB, ALP, ALT, GGT, GLU, T-BILI)  | 24 slides/box (4 panels/box)     |
| CAT 6330-COMP/EWRAP                             | Comprehensive Panel (ALP, ALT, BUN, CREA, GLU, TP, T-BILI, ALB, PHOS, CA, CHOL, GGT) | 72 slides/box (6 panels/box)     |
| CAT 6330-PLUS                                   | Plus Panel (LIP, AMY, MG, TRIG, AST, LYTES)  | 24 slides/box (4 panels/box)     |



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For further assistance, please call Heska's Technical Support Services at 800.464.3752, option 3.