

Running Dilutions on Antech Veterinary Chemistry Analyzers

Performing dilutions on your Element Series (or DRI-CHEM™) analyzer will convey numerical values for tests that cannot be quantified because they are outside the reportable range for the analyzer.

Dilutions should be run if results are over the reportable level and a numerical value is desired. Dilutions are an estimate of value and the lowest possible dilution factor that is deemed to yield a value should be used (i.e., try to avoid performing a 10x dilution as it is less precise than a 2x dilution).

A maximum of three slides can be diluted at a time and dilutions cannot be performed on electrolytes.

If you have any questions about if a slide can be diluted, please call Antech's Technical Support Services at **800-464-3752, option 3**.

Supplies

- Slide(s)
- Sterile water
- Mixing cup*
- 2 tips

* Mixing cups only need to be replaced if they have no unused cells remaining.

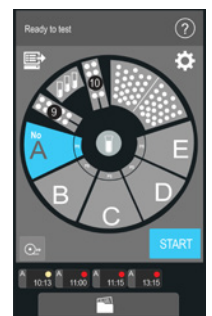
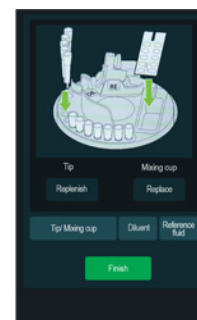
Running Dilutions on the Element DCX™ Analyzer

1. Place sample and slides to be diluted into the analyzer as normal.
Note: Only 3 slides can be diluted at a time.
2. Touch the image of the carousel toward the bottom of the analyzer display screen to rotate the sample carousel.
3. Place sterile water or distilled water in to Dil position using a 0.5 or 1.5 mL non-additive Red Top Tube.
4. Place a mixing cup in the analyzer. Then reset the count by touching REPLACE on the screen. Once completed touch FINISH to rotate the sample carousel to its normal position.
5. Input Patient ID.
6. Select correct animal species.
7. Ensure that sample type is set to P/S (Plasma/Serum).
8. Select dilution factor. The options are x2, x3, x4, x5, x10.
9. After selecting your dilution factor, touch START.
10. The value that prints out and/or sends to the software will already be calculated.



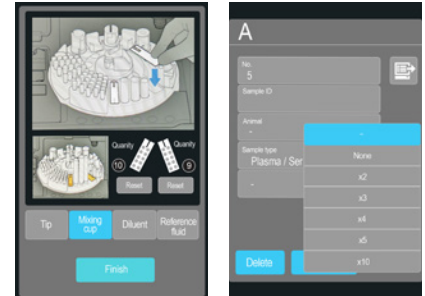
Element DC and
DRI-CHEM 4000
Mixing cups

Element DCX, DC5X
and DRI-CHEM 7000
Mixing cups



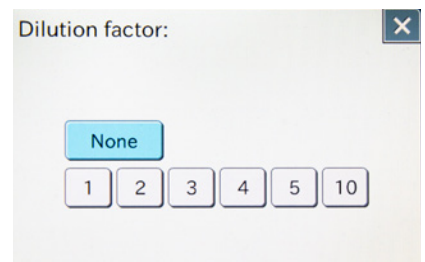
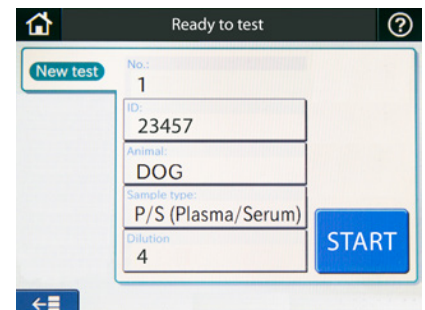
Running Dilutions on the Element DC5X™ Analyzer

1. Place sample and slides to be diluted into the analyzer as normal. Only three slides can be diluted at a time.
2. Touch the image of the three test tubes in the upper left corner of the analyzer touchscreen to rotate your sample carousel.
3. Place sterile water or distilled water in to D2 position using a 1.5 mL non-additive Red Top Tube.
4. Place a mixing cup in the area labeled L or R. Reset the count by touching the "mixing cup" icon on the screen, then press RESET. Once completed, touch FINISH to rotate the sample carousel to its normal position.
5. Select a test position and input Patient ID.
6. Select correct animal species.
7. Ensure that sample type is set to P/S (Plasma/Serum).
8. Select dilution factor. The options are x2, x3, x4, x5, x10.
9. After selecting your dilution factor, touch START.
10. The value that prints out and/or sends to the software will already be calculated.



Running Dilutions on the Element DC™ Analyzer

1. Place sample and slides to be diluted into the analyzer as normal.
Note: Only 3 slides can be diluted at a time.
2. To the left of where your sample is placed, you will see a designated spot for the mixing cup. Place mixing cup here. The larger well goes to the left and the tab should face the back of the analyzer.
3. Place sterile water or distilled water into the larger oval shaped well on the left of the mixing cup, filling approximately 3/4 full.
4. Place tips in Tip A and Tip B positions.
5. Input Patient ID.
6. Select correct animal species.
7. Ensure that sample type is set to P/S (Plasma/Serum).
8. Select dilution factor. The options are x2, x3, x4, x5, x10.
9. After selecting your dilution factor, press START.
10. The value that prints out and/or sends to your software will already be calculated.



Running Dilutions on the DRI-CHEM 7000 Analyzer

1. Place sample and slides to be diluted into the analyzer as normal. Only 3 slides can be diluted at a time.
2. On the analyzer keypad, press TIP/CUP button to rotate your sample carousel. Place sterile water or distilled water in the D2 position using a 1.5 mL non additive Red Top Tube.
3. Place a mixing cup in the area labeled L or R, then press ENTER to replace. Then, using the left and right arrows select Left, Right or All mixing cup. Press ENTER to reset. Press STOP, followed by Tip/Cup to reset the carousel position.
4. Select a test position and input Patient ID.
5. Select correct animal species.
6. Ensure that sample type is set to P/S (Plasma/Serum).
7. Select dilution factor by pressing the DILUTION button until desired dilution factor is selected. The options are x2, x3, x4, x5, x10.
8. After selecting your dilution factor, press SAVE and then START.
9. The value that prints out and/or sends to the software will already be calculated.

Running Dilutions on the DRI-CHEM 4000 Analyzer

1. Place sample and slides to be diluted into the analyzer as normal. Only 3 slides can be diluted at a time.
2. To the left of where the sample is placed, there is a spot for mixing cup. Place the mixing cup in here. The larger well goes to the left and the tab should face the back of the analyzer.
3. Place sterile water or distilled water into the larger well on the left of the mixing cup.
4. Place tips in Tip A and Tip B positions.
5. Input Patient ID.
6. Select correct animal species.
7. Ensure that sample type is set to P/S (Plasma/Serum).
8. Select dilution factor by pushing the Dil button until the desired dilution factor is selected. The options are x2, x3, x4, x5, x10.
9. After selecting your dilution factor, press START.
10. The value that prints out and/or sends to the software will already be calculated.