

Catalyst Dilutions

Quick Reference Guide

Overview

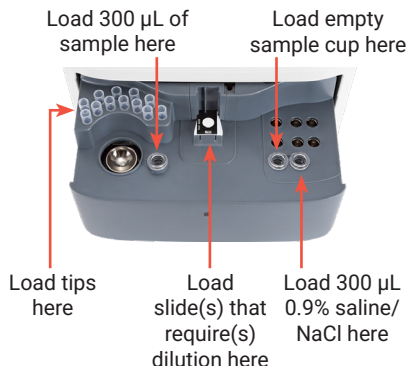
The Catalyst One™ Chemistry Analyzer and the Catalyst Dx™ Chemistry Analyzer both support **automated** dilutions (where the analyzer mixes the sample and diluent for you) and **manual** dilutions (where you prepare the dilution outside of the analyzer).

Use this document as a reference when diluting a plasma or serum sample for chemistry analysis.

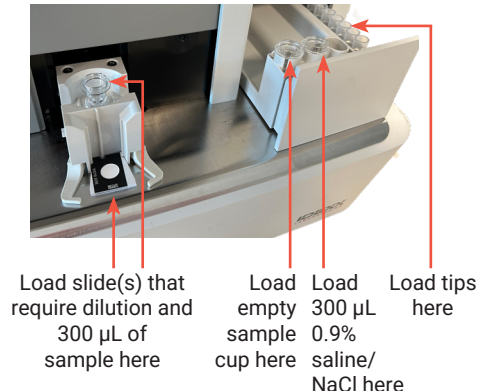
Loading materials for an automated dilution

IMPORTANT: See *Frequently asked questions* for manual dilution instructions.

Catalyst One analyzer



Catalyst Dx analyzer



Frequently asked questions

Question	Answer
When is a dilution necessary?	Dilutions should only be performed when: + A test value is outside the reportable range. + The sample contains interfering substances (e.g., medications) that cause a nonlinear or invalid result. + An initial dilution does not yield a result.
Can dilutions be performed on any sample type?	No. Plasma, serum, and urine samples can be diluted (for information on diluting urine for the Catalyst™ UPC Panel, see your analyzer's operator's guide). Whole blood samples cannot be diluted.
Can dilutions be performed on any Catalyst™ test?	No. Manual and automated dilutions cannot be performed on electrolytes, NH ₃ , PHBR, TT ₄ , SDMA, PL, PROG, BA, CORT, proBNP, or FRU tests. Automated dilutions cannot be performed on CRP tests run on the Catalyst Dx analyzer.
Can a dilution be run with other tests?	No, you should only load the tests that require a dilution (do not load an entire CLIP).
How do I run an automated dilution on my Catalyst analyzer?	For the Catalyst One analyzer: 1. Initiate the sample run on the IDEXX VetLab™ Station. 2. On the Select Instruments screen, select Catalyst One and then select Dilution. Then, ensure Automated is selected, select the dilution factor, tap Save, and tap Run. 3. Load the materials into the analyzer (as shown in the <i>Catalyst One analyzer</i> image above) and then press the Start button on the front of the analyzer. For the Catalyst Dx analyzer: 1. Initiate the sample run on the IDEXX VetLab Station. 2. On the Select Instruments screen, select Catalyst Dx and then tap Run. 3. On the Catalyst Dx touch screen, select the patient in the Pending list and then follow the on-screen instructions to select the sample type, Automated dilution option, and desired dilution factor. 4. Load the materials into the analyzer (as shown in the <i>Catalyst Dx analyzer</i> image above).
How do I manually dilute a sample to be run on my Catalyst analyzer?	For the Catalyst One Chemistry Analyzer: 1. Initiate the sample run on the IDEXX VetLab Station. 2. On the Select Instruments screen, select Catalyst One and then tap Run. <u>Do not select the Dilution option.</u> 3. Dispense equal, measured amounts of sample and diluent (0.9% saline/NaCl) in a sample container, invert (do not shake) it to mix, and then dispense 300 μL of the mixed, diluted sample into a Catalyst™ sample cup. 4. Load the slide(s) and the sample cup into the analyzer and then press the Start button on the front of the analyzer. For the Catalyst Dx Chemistry Analyzer: 1. Initiate the sample run on the IDEXX VetLab Station. 2. On the Select Instruments screen, select Catalyst Dx and then tap Run. 3. On the Catalyst Dx touch screen, select the patient in the Pending list and then follow the on-screen instructions to select the sample type, select the Manual dilution option, and to specify the desired dilution factor. 4. Dispense equal, measured amounts of sample and diluent (0.9% saline/NaCl) in a sample container, invert (do not shake) it to mix, and then dispense 300 μL of the mixed, diluted sample into a Catalyst sample cup. 5. Load the slide(s) and the sample cup into the analyzer. 6. Tap Run.