

Preparing Samples for Catalyst Chemistry Testing

Your Catalyst Dx* Chemistry Analyzer or Catalyst One* Chemistry Analyzer is designed to analyze serum, plasma, whole blood, or urine samples. To ensure maximum accuracy, it is important that you always prepare the sample properly when analyzing blood chemistry parameters. Please refer to your operator's guide for detailed instructions.

Whole blood sample (with a Catalyst* Lithium Heparin Whole Blood Separator)



1. Remove the green cap from the lithium heparin whole blood separator to prepare it for sample collection.



2. **Immediately** after sample collection (to avoid clotting), dispense 0.7 cc of **untreated** (no additive) whole blood into the lithium heparin whole blood separator using an untreated syringe with the needle removed.
Tip: Use the fill line on the separator to ensure proper fill volume.



3. Gently swirl (**do not invert or shake**) the whole blood separator at least 5 times to mix the sample with the anticoagulant.
Caution: Ensure that the cap is removed before loading the separator into the analyzer.

Whole blood separator recommendations

Fill to lowest line on separator (0.7 cc).



Note: Heparinized samples can be used in the lithium heparin whole blood separator *except* when running feline AST, LDH, or CK (double dosing may elevate the results for these assays in feline samples).

Plasma sample



1. Use the appropriate lithium heparin tube. **DO NOT USE EDTA OR SODIUM HEPARIN.**



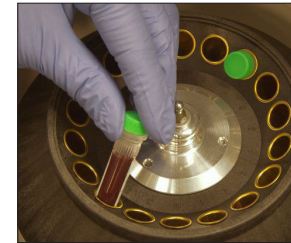
2. Use the appropriate sample collection device.



3. Draw the sample gently. Transfer if necessary. Use the correct blood-to-lithium heparin ratio.
Note: When using an evacuated tube, such as a Vacutainer* tube, allow the sample to draw naturally into the tube by vacuum.



4. Gently invert the sample for **30 seconds** to mix.



5. Within 30 minutes of collection, centrifuge the sample (refer to your operator's guide for centrifugation settings and times).



6. Immediately after centrifugation, transfer 300 µL of sample to a Catalyst* sample cup (take particular care not to aspirate cells during plasma collection). See "Sample cup recommendations" below.

Serum sample



1. Use the appropriate serum tube.



2. Use the appropriate sample collection device.



3. Draw the sample gently. Transfer if necessary.
Note: When using an evacuated tube, such as a Vacutainer* tube, allow the sample to draw naturally into the tube by vacuum.



4. Let the sample clot for a minimum of **20 minutes**.



5. Within 45 minutes of collection, centrifuge the sample (refer to your operator's guide for centrifugation settings and times).



6. Immediately after centrifugation, transfer 300 µL of sample to a Catalyst sample cup (take particular care not to disturb the clot during serum collection). See "Sample cup recommendations" below.

Urine sample for UPC ratio



1. Once you have obtained the urine sample through cystocentesis (recommended), a catheter, or free-catch method, transfer the urine sample to a disposable sample tube.



2. Centrifuge the sample (refer to your operator's guide for centrifugation settings and times).

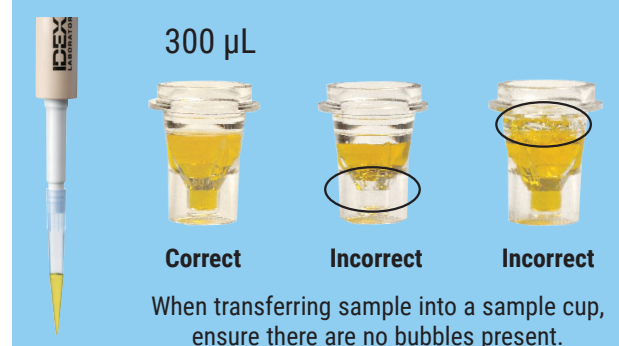


3. Use a transfer pipette to transfer 300 µL of supernatant urine to a Catalyst sample cup. See "Sample cup recommendations" to the right.



4. Dispense 300 µL of Catalyst* Urine P:C Diluent into a Catalyst sample cup.

Sample cup recommendations



300 µL



Correct



Incorrect



Incorrect

When transferring sample into a sample cup, ensure there are no bubbles present.