

NEW: Cyclosporine LC-MS/MS assay offered at the NYP/WC Toxicology Laboratory

Who is this message for:

NewYork-Presbyterian Hospital/Weill Cornell Medical Center Healthcare Clients

What is this message about:

The NYP/WC Toxicology Laboratory will now offer a Cyclosporine assay using the liquid chromatography-tandem mass spectrometry (LC-MS/MS) method. The Toxicology Laboratory will perform sirolimus, everolimus, and cyclosporine testing and report results daily.

What we need from you:

Read the detailed information below if you will be ordering the test.

The expected turnaround time will be 24 hours. Same day results will be provided for specimens that have been received in the laboratory before 12pm. Collection requirements will remain the same – one dedicated Lavender Tube.

Detailed description of the new changes:

NYP/WC Toxicology Lab will stop sending cyclosporine samples to the NYP/CUIMC Laboratory and will instead report results from our new in-house LC-MS/MS assay. Different from the immunoassay at CUIMC, LC-MS/MS method quantifies only the parent drug without cross-reactivity to the drug metabolite or other structurally similar compounds.

Therefore, LC-MS/MS concentrations are typically lower than immunoassay values. There is no simple conversion factor between the two methods. Please establish new baselines for patients using the LCMS/MS assay. It is recommended to adhere to a single, consistent method for ongoing cyclosporine monitoring. The reportable range of the new LC-MS/MS assay is 22-1000 ng/mL. Please reach out to the Toxicology Laboratory at 212-746-3507 for dilutions upon clinician's request.

Implementing LC-MS/MS measurement of sirolimus, everolimus, and cyclosporine is a part of the Weill Cornell Clinical Laboratories' broader initiative to adopt more accurate testing and improve patient care across our transplant programs. The next step in the program will be to implement tacrolimus testing by LC-MS/MS.

Questions?

For more information, visit lab test menu at <https://www.testmenu.com/nyphweillcornell>

Please direct any questions regarding these new testing approaches or test results to Dr. Sarina Yang, Assistant Director of the Central Laboratory and the Toxicology section at 212-746-6292, email: hey9012@med.cornell.edu or to Maria Cid, Toxicology Supervisor 212-746- 3508, email: mac9021@nyp.org.