

DATE:	5 August 2025
TO:	Edmonton, North, and Central Zones – Physicians, Nurses and Healthcare Providers, Laboratory Staff
FROM:	Clinical Biochemistry, Alberta Precision Labs (APL)
RE:	Return of Complement C3 (C3) Testing to Edmonton Base Lab (EBL)

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Key Message

- **August 5, 2025**, Edmonton Base Lab (EBL) will resume Complement C3 (C3) testing for patients located in Edmonton, North, and Central Zone (with the exception of those located at University of Alberta Hospital). Please note the change in the reference interval.

Background

- On May 5, 2025, C3 testing was referred to the Diagnostic and Scientific Center (DSC) in Calgary due to disrupted reagent supply at EBL.
- Reagent supply is now re-established at EBL.
- The EBL Chemistry assay for C3 is performed by immunoturbidimetry on the Siemens Atellica and has a different reference interval than the Calgary C3 test.
- This change does not impact C3 testing performed at the University of Alberta Hospital.

How this will impact you

- The reference interval for C3 will change (see table below). Reports in Connect Care and Netcare will reflect the correct reference interval.
- Testing at EBL is performed daily.

	Edmonton Base Lab	DSC Calgary
Complement C3 reference interval	0.80 – 2.10 g/L	0.60 – 1.60 g/L

Action Required

- Be aware of the change in the reference interval for C3 measurement.
- Rebaselining is recommended for C3 in patients that require serial measurements due to lack of result interchangeability and use of a different reference interval.

Questions/Concerns

- Edmonton Baselab Clinical Chemist Team, 825-394-1819, apl.clinicalchemists@albertaprecisionlabs.ca
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Approved by

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