

Precision Diagnostics and Therapeutics Program Laboratory Medicine- Bulletin

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Total Complement Activity (CH50) method change

Audience: Internal and External Clients
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Effective 16 September 2025

Sunnybrook core laboratory has changed their assay method for CH50 (Total Hemolytic Complement). Reflecting this change in method, the revised reference interval is as follows:

Previous (kU/L)	Revised (kU/L)
> 29	42 – 95

The new CH50 method will have higher results of approximately 40% relative to the previous method. Results released after 16 September 2025 will have the following comment appended for a period of 12-months:

Please note that a change in CH50 methodology is effective 16 September 2025

The analytical measuring range (AMR) for the new method is 13 – 100 kU/L and values above or below will be reported as <13 kU/L or >100 kU/L.

If you have any questions or need further information, please contact Dr. Matthew Lafreniere at extension 6-2688 or email at matthew.lafreniere@sunnybrook.ca

The information in this Bulletin is current as of the date indicated above. However, it may be superseded by subsequent communications. Please check to make sure you are reviewing the most recent communiqué."