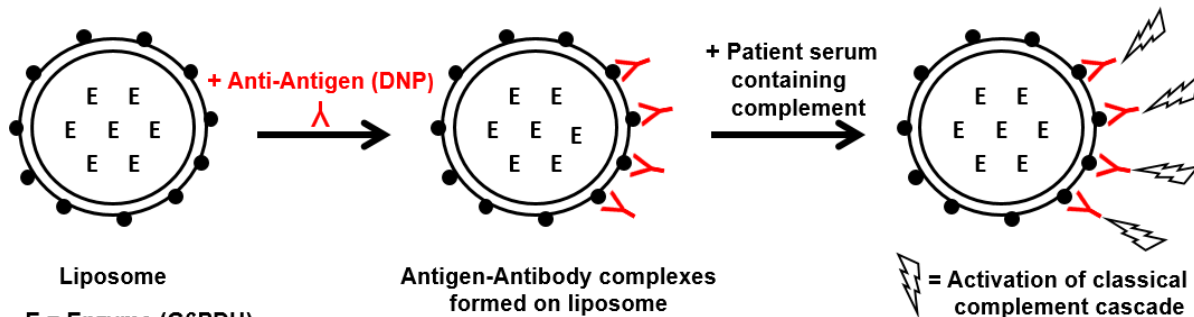


TOTAL COMPLEMENT (CH50)

Effective Date: October 4, 2016

Commencing October 4, 2016, Total Complement (CH50) testing will be performed using a liposome immunoassay (LIA) method. Compared to the previous total hemolytic method, total complement testing by LIA is performed on an automated analyzer and offers improved assay performance characteristics. The chemistry associated with the LIA method is illustrated below.



Liposome
E = Enzyme (G6PDH)
● = Antigen (DNP)

Antigen-Antibody complexes formed on liposome

- Reaction results in:**
1. Lysis of liposomes
 2. Release of Enzyme (E)
 3. Enzyme converts NAD to NADH
 4. Rate of NADH production is measured

Interpretation of Total Complement Levels:

Abnormal (Low): < 41.7 U/mL

Normal: ≥ 41.7 U/mL

Specimen Collection Instructions:

1. Collect one **red-top (clot)** tube.
2. Allow specimen to clot for 30-60 min at room temperature.
3. Separate serum from cells by centrifugation.
4. Transfer serum to a separate aliquot tube and **immediately freeze**.
5. Transport specimen to Laboratory frozen.
 - Total complement testing will be performed on Tuesday and Thursday of each week.

For additional information, access the Laboratory Test Directory at:

<http://beaumontlaboratory.com/test-lab-directory>

If you have questions, please contact Client Services (1-800-551-0488, option 5).

Date submitted: September 27, 2016

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