

May 09, 2019

## U Cinn - Cholesterol Concentration

DOI

[dx.doi.org/10.17504/protocols.io.xiifkce](https://dx.doi.org/10.17504/protocols.io.xiifkce)



Patrick Tso<sup>1</sup>, Dana Lee<sup>1</sup>

<sup>1</sup>University of Cincinnati

Mouse Metabolic Phenotyping Centers  
Tech. support email: [info@mmpc.org](mailto:info@mmpc.org)



Lili Liang

OPEN  ACCESS



DOI: [dx.doi.org/10.17504/protocols.io.xiifkce](https://dx.doi.org/10.17504/protocols.io.xiifkce)

External link: <https://mmpc.org/shared/document.aspx?id=199&docType=Protocol>

**Protocol Citation:** Patrick Tso, Dana Lee 2019. U Cinn - Cholesterol Concentration. **protocols.io**  
<https://dx.doi.org/10.17504/protocols.io.xiifkce>

**License:** This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

**Protocol status:** Working

We use this protocol and it's working

**Created:** January 29, 2019

**Last Modified:** May 09, 2019

**Protocol Integer ID:** 19754

**Keywords:** cholesterol,



## Abstract

### Summary:

In vitro quantification of cholesterol in serum or plasma is determined using an Infinity Total Cholesterol Assay kit. This assay enzymatically hydrolyzes the cholesterol esters in the sample to cholesterol and free fatty acids. The free cholesterol is further oxidized and combined with HBA to allow it to be quantitatively measured in the serum or plasma.

## Materials

### MATERIALS

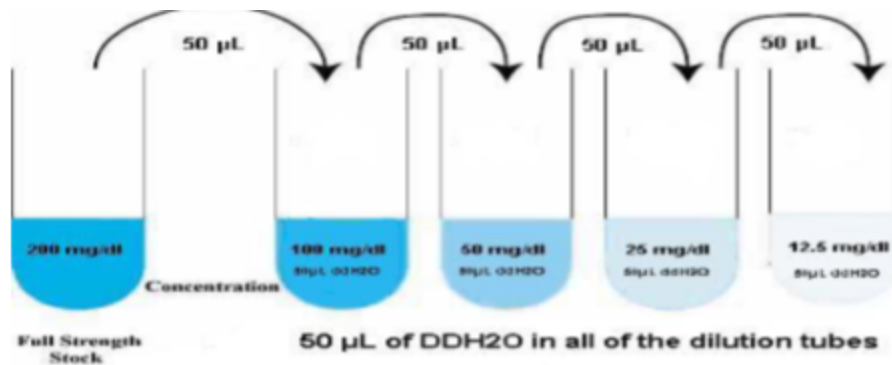
 Infinity Total Cholesterol Assay Kit **Fisher Scientific Catalog #TR13421**

 Pointe Scientific Inc Cholesterol Std **Fisher Scientific Catalog #23-666-198**

### Reagent Preparation:

Reagent is supplied ready to use.

- 1 Prepare working standards by making a serial dilution of the stock 200mg/dl standard.



- 2 Using a 96 well flat bottom plate, into separate wells, pipette 2µL of deionized water, standard, or sample to be assayed.
- 3 Add 200µL of **Reagent** (supplied ready to use) to all wells.
- 4 Incubate plate for 5 minutes at 37°C.
- 5 Determine the absorbance (abs) of the standards and of each unknown at 500nm.
- 6 Calculate values of unknowns from the standard curve.

**Specimen:** Serum or Plasma. Specimen stable for 7 days at 2-8°C or 3 months at -20°C.

**Assay Linearity:** 774 mg/dl

**Reagent Stability:** Until Expiry on Bottle at 2-8°C

**Stability of Final Reaction:** 60 minutes