MAY 09, 2019

U Cinn - Triglyceride Assay

Patrick Tso¹, Dana Lee¹

¹University of Cincinnati

Mouse Metabolic Phenotyping Centers
Tech. support email: info@mmpc.org

Lili Liang

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.xm4fk8w

External link:
<https://mmpc.org/shared/document.aspx?id=200&docType=Protocol>

Protocol Citation: Patrick Tso, Dana Lee 2019. U Cinn - Triglyceride Assay.
protocols.io
<https://dx.doi.org/10.17504/protocols.io.xm4fk8w>

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), 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: Jan 31, 2019

Last Modified: May 09, 2019

PROTOCOL integer ID:
19868

ABSTRACT

Summary:

Determinations of triglycerides in plasma/serum/lymph will be made using a Randox Triglycerides colorimetric kit. The triglycerides are determined after enzymatic hydrolysis with lipases.

MATERIALS

MATERIALS

Triglyceride Assay Kit Randox Catalog #TR213

Working Reagent:

Reagents and Materials:

Enzyme Reagent R1b

Buffer R1a

Procedure:

Prepare **Working Reagent** by reconstituting one vial of **Enzyme Reagent R1b** with a portion of **Buffer R1a** and then transfer entire contents to bottle **R1a**, rinsing vial **R1b** several times.

Note:

Randox Life Sciences, [RRID:SCR_005525](https://pubchem.ncbi.nlm.nih.gov/compound/SCR_005525)

Keywords: Triglyceride
Assay

- 1 Prepare **Working Standards** by making a serial dilution of the stock 200mg/dl standard. (See diagram below) *Stock standard is included in kit

- 2 Prepare **Working Reagent** by reconstituting one vial of **Enzyme Reagent R1b** with a portion of **Buffer R1a** and then transfer entire contents to bottle **R1a**, rinsing vial **R1b** several times.
- 3 Using a 96 well flat bottom plate, into separate wells, pipette 2µL of deionized water, standard, or sample to be assayed.
- 4 Add 200µL of reconstituted **Working Reagent** to all wells.
- 5 Incubate plate for 5 minutes at 37°C
- 6 Determine the absorbance (abs) of the standards and of each unknown at 500nm.
- 7 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: 1172 mg/dl

Working Reagent Stability After Reconstitution: 21 days stored at 2-8°C. PROTECT FROM LIGHT

Stability of Final Reaction: 60 minutes