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Yale - Non-Esterified Fatty Acids

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Protocol status: Working
We use this protocol and it's working

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Keywords: Non-Esterified Fatty Acids (NEFA)

Abstract

Summary:

Procedure used to determine the concentration of NEFA in blood, serum, and plasma. NEFA; Free fatty acids are measured in a multistep reaction to form an colored adduct of 3-methyl-Nethyl-N-(b-hydroxy-ethyl)-analine and 4-aminoantipyridine monitored at 560 nm.

Materials

MATERIALS

NEFA Reagents A & B **Wako Catalog #**H7587-58

NEFA Solvents A & B **Wako Catalog #**H7587-58

Reagent Preparation:

NEFA Reagent A: Add 50 mL of Solvent A to Reagent A. Gently invert and allow 15 minutes to mix.

NEFA Reagent B: Add 25 mL of Solvent B to Reagent B. Gently invert and allow 15 minutes to mix.

NEFA Solvents A & B: As supplied by vendor.

Note:

Wako RRID:SCR_013651

Before start

Analysis by automated system Cobas Mira Plus

1 Calibrate Cobas for NEFA analysis by running a NEFA standard.

2 Sample handling as performed by the Cobas Mira Plus
a) Pipette 6µL of sample into cuvette.
b) Add 225 µL of NEFA Reagent A Mixture.
c) Add 75 µL of NEFA Reagent B Mixture.
d) Mixture is incubated at 37ºC for 10 minutes
e) Absorbance is measured at 560 nm.