Serum Biochemical Indexes Detection

Honghao Zhao,Jasmine Chong,Rong Tang,Li Li,Jianguo Xia,Dapeng Li

Abstract

This protocol is widely used in serum biochemical indexes detection, it provides an rapid and reliable technique for obtaining relative concentrations of multiple blood biochemical indices simultaneously.

Citation: Honghao Zhao,Jasmine Chong,Rong Tang,Li Li,Jianguo Xia,Dapeng Li Serum Biochemical Indexes Detection. **protocols.io**
dx.doi.org/10.17504/protocols.io.smeec3e
Published: 15 Aug 2018

Before start

All the standard samples of every index are kept at 4 ℃.

Protocol

Blood Samples Collection

Step 1.
Blood samples (180 - 200 mL per tail) from 10 Ctenopharyngodon idellus per each group were taken from caudal vein without an anti-coagulating substance by injector puncture.

Preparation for Serum samples

Step 2.
The blood samples were placed at room temperature for 30 minutes, then centrifuged at 3000 g for 30 minutes at room temperature.

Storage of samples

Step 3.
The separated serum was stored at -80 ℃ until the serum biochemical indexes detection and analysis.

Serum Samples Detection

Step 4.
The lactate dehydrogenase, glutamic-oxalacetic tansaminase, glutamic-pyruvic transaminase, alkaline phosphatase, total cholesterol, high density cholesterol, glucose, albumin, total protein and triglycerides were measured by automatic biochemistry analyzer (Hitachi 7020, Hitachi High Technologies, Inc., Ibaraki, Japan).

The used test Kit

Step 5.
Test kits (the standard samples of serum biochemical indexes) were purchased from the Nanjing

Jiancheng Biochemical Corporation (Nanjing Jiancheng Biochemical Corporation, Nanjing, China), and the entire procedure was performed in accordance with the kit instructions.