

Short Chain Fatty Acid Analysis by Gas Liquid Chromatography

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Plasma short chain fatty acids are analyzed by the following procedure: to 200 μ l of EDTA plasma in a 1.5 ml Eppendorf microfuge tube is added 20 μ l of internal standard and 1 ml of absolute ethanol. The sample is mixed thoroughly, centrifuged, and the supernatant is recovered. The sample is evaporated using a Speed Vac and dissolved in 15 μ l water, and prior to injection 5 μ l of orthophosphoric acid (25%) is added. The short chain fatty acids are separated on a 6' x 2 mm glass column packed with SP-1200/1% H_3PO_4 on 80/100 Chromosorb W AW.