



NEFA

Non-Esterified Fatty Acids

What is NEFA? Non-Esterified Fatty Acids (NEFA) are molecules released from triglycerides by the action of the enzyme lipase and are transported in the blood to other tissues, such as the muscle and liver, bound to albumin. They contribute only a small proportion of the body's fat, however they provide a large part of its energy. Elevated concentrations in obesity are thought to arise from an increased adipose tissue mass, which in turn leads to insulin resistance in insulin target tissues.

Elevated NEFA concentrations have adverse effects on both carbohydrate and lipid metabolism, therefore increased levels are an indicator of insulin resistance, type 2 diabetes and obesity, which can increase the likelihood of developing diabetes. In addition, these can lead to an increased coronary heart disease risk. However, NEFA is highly useful in the monitoring of metabolic syndrome and diabetes. Higher levels of plasma NEFA are found to be associated with age, higher measures of adiposity and lower levels of physical activity. World Diabetes Day 2017

Speciality reagent from Randox – giving laboratories the opportunity to take their diabetes related testing beyond the routine and collate more extensive patient results

- Exceptional Correlation -The NEFA assay showed a correlation of $r=0.98$ against another commercially available method
- Excellent Precision – The NEFA assay has a precision of less than 5% CV
- Extensive measuring range – 0.072-2.24 mmol/l allowing comfortable detection of NEFA levels
- Complementary controls and calibrators available – for a complete testing package
- Colorimetric method
- Lyophilised reagent

Useful links

[Download our Reagents Brochure](#) for information on a wide range of clinical assays from Randox.

Contact us via our quick [enquiry form](#).

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