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Entitled

*LC-MS BASED ANALYSIS OF VITAMINS B3 AND B6 IN HEALTHY AND OBESE EMIRATI
POPULATION*

By

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Abstract

Water soluble vitamins like Vitamin B3, B6 and B9 are of utmost importance in human health and disease, as they are involved in numerous critical metabolic reactions. Not surprisingly, deficiencies of these vitamins have been linked to various disease states. For examples, Vitamin B6 deficiency has been related to many diseases in humans especially in women with type 1 diabetes and in patients with systemic inflammation, liver disease, rheumatoid arthritis, and those infected with HIV. Similarly, derivatives of Vitamin B9 (such as folates), are needed to synthesize, repair, and methylate DNA as well as to act as a cofactor in certain biological reactions. The aim of this study was to develop a sensitive and robust HPLC/LCMSMS method for the determination of blood levels of vitamins B6 and B3 from human plasma and to apply it for the quantification of these vitamins in healthy and obese Emirati population in the Al Ain region of UAE.

Keywords: Vitamins, obesity, Emirati population, bioanalytical quantification, serum