

## **TEAVIGO™ - a powerful constituent of green tea to benefit human health**

Peter Weber, MD, PhD

DSM Nutritional Products, Basel Switzerland

### **Abstract**

Green tea catechins have been reported to have various health benefits in humans. EGCG is quantitatively the most important catechin polyphenol found in green tea and is considered the main active ingredient. DSM Nutritional Products has developed a method to purify EGCG from green tea extracts and to produce batches with a constant concentration of >90 % crystalline pure EGCG (TEAVIGO™). We investigated the safety, tolerability and plasma-kinetic behavior of TEAVIGO™ as well as the anti-obesity, anti-diabetic and cardio-protective effects of this product. We conducted with TEAVIGO™ two phase I studies in healthy, male volunteers: a single (SAD) and a multiple ascending dose (MAD) study. TEAVIGO™ was safe and well tolerated and EGCG had a good bioavailability. The anti-obesity and anti-diabetic effects of TEAVIGO™ were investigated in well established mouse models for obesity and diabetes in humans. Supplementation with TEAVIGO™ effectively prevented diet-induced obesity, decreased dose-dependently postprandial glucose levels and stimulated insulin secretion. We conclude, that TEAVIGO™, a safe and well tolerated product has a great potential to maintain normal body weight and support healthy glucose levels, both of which are considered important parameters of the metabolic syndrom.