

Summary of the application: Yellow/orange tomato extract

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The novel food application concerns the authorisation of an extract from yellow/orange tomatoes, referred to as yellow/orange tomato extract. The novel food is extracted and purified from tomato hybrid cultivars with a high carotenoid content. The yellow/orange tomatoes as a raw material have been cultivated using traditional breeding techniques, and they have a history of safe food use. The yellow/orange tomato extract is derived from the dried yellow/orange tomato pulp which is obtained by traditional physical techniques (separation, drying) from raw yellow/orange tomatoes. Samples from five independent batches of the yellow/orange tomato extract were used for the compositional analysis. The yellow/orange tomato extract is an oil fraction and therefore does not contain protein, carbohydrate, sugar or dietary fibre. The components in the yellow/orange tomato extract are qualitatively the same as in the approved novel extract from red tomatoes - Lyc-O-Mato 6% oleoresin. The Lyc-O-Mato tomato extract has an established use as an ingredient in food supplements and as a food colour (E160d) in the EU and as a novel food source of lycopene in food products other than food supplements.

Lycored wish to market the yellow/orange tomato extract as an ingredient for use in food supplement products intended to be consumed by the general population in the EU aged 3 years and older to provide a daily dose of 10, 20 or 30 mg of total carotenoids per day. The yellow/orange tomato extract is also proposed for use in cereal bars and functional beverages. It is proposed that a consumer will have a maximum intake of 30 mg total carotenoids per day from the proposed use of the yellow/orange tomato extract.

Tier 1 genotoxicity testing was conducted on the yellow/orange tomato extract, and it was observed as non-mutagenic, and non-clastogenic and non-aneugenic to human lymphocytes in vitro. Collectively, the studies performed on the yellow/orange tomato extract and on Lyc-O-Mato® 6% (i.e. acute toxicity, sub-chronic toxicity, irritation, and sensitisation studies, along with clinical studies), support human health safety of the components found in the yellow/orange tomato extract.