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**High-performance liquid chromatography method to measure alpha- and gamma-tocopherol in leaves, flowers and fresh beans from Moringa oleifera.**Sánchez-Machado DI<sup>1</sup>, López-Cervantes J, Vázquez NJ.**Author information****Abstract**

A high-performance liquid chromatography method for the microscale determination of alpha- and gamma-tocopherol in leaves, flowers and fresh beans from Moringa oleifera is reported. The method includes microscale saponification and extraction with n-hexane. Optimized conditions for reversed-phase HPLC with UV detection were as follows: column, 25 cm x 0.46 cm, Exil ODS 5-microm; column temperature, 25 degrees C; mobile phase, a 20:80 (v/v) mixture of methanol:acetonitrile; flow rate, 1.0 ml/min. With these conditions, method precision (relative standard deviation) was 5.6% for alpha-tocopherol and 4.9% for gamma-tocopherol. We used this method to measure alpha- and gamma-tocopherol in samples from M. oleifera as part of nutritional studies in edible plants cultivated in the Northwest México.

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