

Isolation of Quality Total RNA from the Aromatic Plant

Origanum onites

İsmail Poyraz^a, Emel Sözen^{b,*}, and Muhittin Arslanyolu^b

^a Bilecik University, Pazaryeri Vocational School, Pazaryeri, 11800, Bilecik, Turkey

^b Anadolu University, Science Faculty, Biology Department, Yunusemre Campus, 26470, Eskişehir, Turkey. E-mail: esozen@anadolu.edu.tr

* Author for correspondence and reprint requests

Z. Naturforsch. **65c**, 266–270 (2010); received October 12/November 19, 2009

We successfully used the guanidine isothiocyanate method for isolation of total RNA from leaf, stem, and root tissues of the aromatic plant *Origanum onites*. The RNA was extracted with TRI Reagent[®] at room temperature and was recovered by isopropanol precipitation. The isolated RNA was capable of reverse transcription. The extraction method described here does not require ultracentrifugation, and it is fast, simple, and effective. The procedure can be completed within 3 hours and may be applicable to other aromatic medicinal plants containing high amounts of phenolic compounds.

Key words: RNA Isolation, *Origanum onites*, Secondary Metabolites