

Results for Energizing Biophytomodulators Type Produced by AD. the Seeds of *Satureja Hortensis* (Garden Thyme)

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SUMMARY

If different bodies have a different set of chemical elements, a different set of chemical compounds with different stereochemistry – with different distribution in space of this atoms and chemicals, than all bodies have individual strictly torsion fields. Properties of energizing of biophytomodulators are highlighted in undoubtedly way by the infrared spectrophotometry technique. The biological material studied is seed of *Satureja hortensis* (garden thyme). It have carminative action, expectorant and astringent (Cowans, 1999). Used as stomachic in stomach upset and anorexia as diarrhea and chronic bronchitis. Garden thyme is widely used in food as a condiment (Miliauskas *et al.*, 2004). Thyme seeds were excited with biophytomodulators type DEA, DEA addition DIE + type DIEE biohytomodulators excitation resulting significant changes. The seeds were dried at 105⁰C, made pills with bromide, and analyzed using a spectrophotometer with an accuracy of 4cm⁻¹. Device was calibrated before removing water, water that produces the phenomenon of beats. For a better comparison and interpretation of data are processed in a special program, resulting in these conclusions. Range of wavelengths, which can be considered energy changes (amplitude and extinction bands), is located between 200 and 2500 cm⁻¹. Keep wavelengths of developing such a significant pick-tion. Corresponding wavelength of 1360 cm⁻¹ for biophytomodulators DEA and DEA + DIEE complex is a reduction in amplitude for a similar situation, which occurs at a wavelength of 1396 cm⁻¹, where the amplitudes pick sites for DEA, DEA + DIEE and are similar. For a wavelength of 1543 cm⁻¹, the situation is unchanged. At a wavelength of 1652 cm⁻¹ appears only changes the amplitude, which requires some internal change. Clearly, the effect of biophytomodulators type AD on the material, have a different response depending of the biophytomodulators used and the combination between them.

Keywords: biophytomodulators, garden thyme, spectrophotometer

REFERENCES

1. Miliauskas, G., P. R. Venskutonis and T. A. Vanbeek, (2004). Screening of radical scavenging activity of some medicinal and aromatic plant extracts. Food Chem.
2. Cowans, M. M., (1999). Plant Products Agents, Clinical Microbiology Reviews.