

TOWARDS SCREENING THE ENHANCE OF LUMINESCENCE PROPERTIES OF OXIDIZED TANNINS BY A FENTON-LIKE REACTION

Alexandru Gonta

*Institute of Chemistry of Academy of Sciences of Moldova, 3, Academiei str., Chisinau MD-2028, Republic of Moldova
e-mail: alexandru.gonta@chem.asm.md*

Abstract. After modification of enotannins, flavonols monomer units could be obtained with polyfunctional properties. Moreover, polyphenols are known to generate H₂O₂ and other free radicals under alkaline conditions. Reactive oxygen species generation and catalytic influence of ferrous ions enhance the chemiluminescence light. Therefore, Oxidized Tannin/Tris-EDTA/Fe²⁺ ions system have been used for screening luminescent properties of oxidized tannins.

Keywords: oxidation, tannins, free radical, chemiluminescence.

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