

# Turkish Journal of Agriculture and Forestry

Turkish Journal



of

Agriculture and Forestry

The Effect of Interesterification Reactions on The Tocopherols and The Sterols  
in Fats

Aziz TEKİN, Muammer KAYAHAN

Ankara Üniversitesi, Ziraat Fakültesi, Gıda Mühendisliği Bölümü, Ankara-TÜRKİYE

 [Keywords](#)  
 [Authors](#)



[agric@tubitak.gov.tr](mailto:agric@tubitak.gov.tr)

[Scientific Journals Home Page](#)

**Abstract:** In this study, interesterification which has been used in developed countries for years and tried in Turkey recently, was applied to a sunflower oil and beef tallow blend (80:20). 25 sample fats were obtained by applying interestification at different temperatures and times by adding 0.3% sodium methoxide. The changes in the tocopherols and sterols of these fats were investigated. It was determined that the reaction was completed at 70°C in 45 minutes and at higher temperatures and longer times using lipase hydrolysis. In conclusion tocopherols and sterols were esterified more quickly as time and temperature increased. Therefore, they were more protected during interesterification and especially during the bleaching process as the reaction time increased.

---

Turk. J. Agric. For., **23**, (1999), 257-262.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Agric. For.,vol.23,iss.EK2](#).