**Abstract**

**Level of closeness of Acacia polyacantha (Kakamut) gum to the gum arabic from Acacia senegal (Hashab)**

This paper aims at showing the affinity level of the gum produced from the *Acacia polyacantha* (*Kakamut*) tree and the gum arabic produced from the *Acacia senegal* (*Hashab*) tree. In fact, Gum Arabic plays an important role among the agricultural products, from the aspects affecting the national return, the product of the hard currency, the direct impact on the national and local economy, and the direct and indirect effects on social and environmental conditions. The importance of gum arabic not limited to being one of the most important exports of Sudan and the most important strategic commodity that characterizes Sudan (where it contributes more than 70% of the world's production), but because the trees that produce it have an environmental role that cannot be replaced by others. Hashab trees and nearby trees grow naturally in the gum arabic belt in what is known as savanah gum belt. For the unknown reasons, the definition of gum arabic produced from the (*Hashab)* tree was linked to the gum produced from (*Talha)* which is not proved yet. Despite the level of convergence between the product of *Hashab* and the *Kakamut* product the species are also closely related to each other than any other species. In this study, the paper adopted a method of comparison between the preliminary and secondary information collected from the *Kakamut* experiments and some properties written in different literature.  
After the descriptive analysis of the evidence and comparison, the study concluded that the gum Arabic produced from *Kakamut* trees is considered as one of the ever closest gum types to the gum arabic, May be to for political or technical reasons have made some countries that producing or consuming gum *Talha* paste gum arabic name and definition with *Talha* gum, despite the existence of many differences. Therefore, this paper will spot light on the most relationship between gum produced from *Acacia polyacantha* (Kakamut) which is from physiochemical properties is more closely related than other types of Acacias gum to the gum arabic produced from *Acacia senegal* tree species.

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