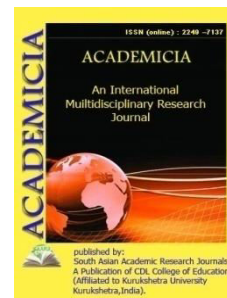




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GETTING OF GOSSIPOL ACIC ACID (GSK)

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ABSTRACT

This article provides information on the biological characteristics and technical Gossipol (Gossypium) isolation of Gossipol acetic acid (GSK) based on the fact that all species of cotton belong to the genus Gossypium and belong to the family Malvaceae. The gossypol molecule has a large number of polar groups, for example, six hydroxyl groups. But the presence of two heavy dialkyl naphthalene groups makes it insoluble in water. The seeds contain gossypol pigment (a toxic organic compound), which is extracted during the oil extraction process and various synthetic substances are produced from it. Residual tar in oil production is also sent to the national economy for use.

KEYWORDS: Cotton, Gossypium, Rosemary, Technical Gossipol, Bactericide, Antiseptic, Antibacterial, Antioxidant. Gossypol Acetic Acid (GSK)

REFERENCES

1. R.Oripov., S.Ostonov. Cotton growing Samarkand - 2005 p.77
2. Khaitbaev A.X., Aslanov X.A., Auelbekov S.A., Khaitbaev X.X. Synthesis of new iminoproizvodnyx gossipola // Chemistry prirodnoy soedin. -1994. -№1. -S.48-49
3. <https://en.wikipedia.org/wiki/Gossypol>
4. Gossipol is a polyphenolic compound obtained from a cotton plant / Wang X., Howell CP, Chen F. et al.,. Adv Food Nutr Res. 2009; 58: 215-63
5. Isaev I.X., Ibragimov A.S., Saidakhmedov U.A., Salikhov Sh.I. Patent UZ / IAP 02060 S 29.06.2001 Method of obtaining technical gossypol, Bul. Inventions №3
6. Gossypol acetic acid organization standard FS 03535693-21: 2014
7. Ibragimov A.S., Rasulov A.H., Islamov A.H., Matchanov A.D., Khodjaniyazov B.A // Technology of free gossypol production of seeds by cold pressing // Karakalpak state named after Berdakh in the Republic of Karakalpakstan Proceedings of the scientific-practical conference on current issues in the development of chemistry and chemical technology of the University March 24, 2021. B.291-292
8. Islamov A.KH. Matchanov A.D. Ibragimov A.S. Rasulov A.X. Muxamedxanova S.I. Nazirova E.R. Salixov S.H.I. // Technology Of Gossipol Acic Acid From Technical Gossipol.// World Journal of Engineering Research and Technology. Vol. 7. Issue 4. ISSN 2454-695. XX-XX. SJIF Impact factor: 5,924. 10.05.2021.
9. Islamov A.KH, Jalmurodova D.D. Ishmuratova A.S. Khushvaqtova M.A. Khushvaqtov A.A. // Determination and comparison of macro and micro elements in raisins and memory raisins // Minitertstvo obrozovaniya i nauki Respubliki Kazaxstan. Sbornik trudov mezhdunarodnoy nauchno-teoriticheskoy konferentsii. Shimkent 2021 April 23. B. 6-10
10. Islamov A.X., Matchanov A.D. Bekturdiev G.M. Esanov RS, Sabirova FA // Hydrodynamic properties of complex solutions of tetracyllagoxillin with monoammonium salt of glycyrrhizic acid // Journal of Chemistry of Uzbekistan. No. 6, 2020. ISSN: 0042-1707. B.64-73
11. Islomov A.X. Alimov A.E Matchanov A.D. // Extraction of Gossypol acetic acid (GSK) from technical gossypol // UzGulSU Republican scientific-practical conference "Prospects for the use of natural compounds in industry and agriculture." 2021 and 21-22 May. B.10-12.
12. Islomov A.X. Jalmurodova D.D. Niyozmetov B.E. // Erkin gossipol analysis // «Scientific progress» scientific journal Issn: 2181-1601 volume: 1, issue: 6 april 2021. B.171-178