

Technology for Obtaining Antimony From Local Raw Materials

Jalilova F. S.

Assistant of the Pulpit of Pharmacology, Bukhara State Medical Institute named after Abu Ali ibn Sina

Summary: Scientists have already established a connection between the condition of a person's eyes and his health. If the eyes go blind, it means that the human body needs to be strengthened. Therefore, eye health depends on the genetic state of the human body, lifestyle, exposure to various diseases and proper care. In many cases, women start using various cosmetics to make their eyes look brighter, and it is difficult for them to choose natural ones, which leads to problems with the eyes (allergies, suppuration, inflammation) and wrinkles around the eyes, which can lead to unpleasant situations. Today, more than a million eye dyes are used in the world. However, there are no recommended products for natural production in Uzbekistan. Taking this into account, we have developed a useful composition and technology of antimony for vision and eye hygiene based on natural local raw materials in Uzbekistan and set ourselves the goal of standardizing it.

Keywords: antimony, Co chl, animal fat, eye, eyelashes, sterile cotton wool, powder.

Introduction

Eyes are an important link between the external and internal world. Kajal is worn for many reasons, including rituals, decoration, and protection from the evil eye. Antimony is widely believed to have medical benefits for the eyes, and wearing antimony is also encouraged under the Sunnah, the traditional Islamic code of conduct [1,2,22,23].

Antimony is nature's secret of beauty. Cosmetics and perfumes have been used since ancient times. The word "Surma" comes from the Turkish word "surme", which means "to push", "to darken the eyes, eyebrows". It not only gives expressiveness to the eyes and emphasizes their beauty, but is also very useful for vision and eye hygiene [3, 25,26].

Antimony is also used to strengthen the eyes of infants and is also considered a remedy for the evil eye. Antimony can be dry or liquid with the addition of various oils. Many years ago, eye antimony was considered a beauty product only for wealthy women. It was not easy to buy it, because it was brought from distant countries and the price was quite expensive. The modern world of cosmetics allows you to use this product without restrictions. If we rub antimony on our eyes every day before going to bed, it will increase the brightness of the eyes. **Antimony** (kol, kajal, kajal, kujal) - Kol (hoor, kul, kahal, khol, kajal) is a black substance used by women of the Arabian Peninsula for makeup, inner eyelids, eye color and eye care [4,27,28].

In the Middle East, antimony is used in the treatment of conjunctivitis and other eye diseases, relieves irritation of the mucous membrane of the eye, and in some cases is used as an antiallergic agent. Antimony is not harmful eyelashes, on the contrary, strengthens them and helps their growth. Antimony makes the eyes brighter, larger and protects them from diseases. In desert conditions, black color helps fight the scorching sun, so in the east, not only women, but also men also use antimony [5, 29,30,31].

Healthy the use of antimony and, unlike commercial cosmetics, it produces a less "artificial" impression, since it penetrates even into the roots of the eyelashes, and is also used to color the eyelids, then the mucous membrane and skin are completely colored and do not damage the skin [9,10,11].

Adding various oils more favorably shapes the antimony, such as almond or castor oil, this helps to better care for eyelashes and eyes. For therapeutic purposes, you can leave antimony overnight.

Antimony is suitable for daily use. Many women, having used antimony once, rarely return to their previously used cosmetics. Every year more and more women resort to using antimony [6, 12, 13, 14].

Antimony based on animal fat for eyes, eyelashes and eyebrows clearly emphasizes them in an oriental style. The ingredients are thoroughly mixed before use, the antimony is homogeneous, soft in structure and consistency. Almond oil nourishes and moisturizes, makes eyes larger and gives a natural shine. Also, this product nourishes the eyelashes. In the daytime, it serves to give the eyes brightness, rich shine and charm, as well as moisturizing. Especially useful at night for therapeutic purposes [34,35, 41,42].

Materials and methods

Antimony is primarily obtained from the bone marrow of healthy cattle. For this we need two enamel coated containers, sterilized cotton wool and cattle bone marrow. First, place the bone marrow in an enamel container and melt over medium heat. The melted bone marrow was filtered through a special gauze filter. The tablet was prepared from sterilized cotton wool and soaked in melted bone marrow. The filtered bone marrow was placed in a special glass container, a prepared cotton swab was placed inside and set on fire. After the cotton wick begins to burn slowly at one end, the container is closed upside down over the container in the position of air intake. The bone marrow is left until it is all burned. During this process, the bone marrow is slowly burned through a cotton pad and collected from above into a container. After all the bone marrow has burned, the prepared antimony in the container is scraped out and collected. Painting the eyes with antimony at night improves vision, promotes eyelash growth, and has a positive effect on eye discharge. Perfectly relieves eye fatigue and cleanses the eyes. Paint your eyes with a natural color, it will be richer and brighter. Can be used daily. Antimony has no contraindications or shelf life; it is often used in the form of a dry powder. Easily removed with soap, foam or oil [36,37,37,39].

Conclusion

As a result of the research, a technology for obtaining antimony from the bone marrow of cattle was developed. This remedy improves vision every day When applied to the eyes, it promotes the growth of eyelashes, improves the secretion of tears, perfectly relieves eye fatigue, and cleanses the eyes.

It is also recommended to use it as a natural cosmeceutical. To use, antimony powder is applied along the eyelash line with a special stick and is used only for external use. The developed antimony will increase the amount of domestic cosmeceuticals and will meet the need of our people for domestic cosmeceuticals in the future.

References:

- 1. T. Srikanth, S.S. Hussen, A. Anand, S.G. Vasantharaju, Sandeep, Der Pharmacia Lettre 3 (2011) 334-341.
- 2. Parry S, Eaton J. Kohl: Lead-hazardous eye makeup from the third world to the first. Environmental Health Perspectives 1991; 94: 121-123.
- 3. Shastri Ambika Dutt . Commentary in Hindi by Sushruta Samhita , vol. II, Chaukhamha Publications, New Delhi , 2009; 1-108.
- 4. B. C. Stone, Micronesica 6 (1970) 1-659.
- 5. R. Govindarajan, Vijaykumar M, Pushpangadan P. Antioxidant approach to the treatment of diseases and the role of Rasayan herbs in Ayurveda; Journal of Ethnopharmacology, 2005; 99: 165-178.
- 6. Ayurvedic Handbook of India, Part II, Department of Indian System of Medicine and Homeopathy, New Delhi, 2002.

- 7. DP. Singh, Govindarajan R, Rawat AK. High-performance liquid chromatography as a tool for chemical standardization of triphala, an Ayurvedic drug, Phytochemical Analysis, 2008;19: 164-168.
- 8. KN. Mahajan, A.K. Singhal, G.P. Vadnere; Study of the anti-cataract activity of Triphala. ghrita, Electronic Chemical Journal, 2011; 8(3):1438–1443. https://www.stylecraze.com/articles/benefits-of-rosewater-for-eyes/# gref
- 9. WHO. Methods for quality control of raw materials of medicinal plants. Geneva, 1998, p. 1115
- 10. J.B. Harborne, Phytochemical Methods: A Guide to Modern Methods of Plant Analysis. Chapman and Hall London, Great Britain. 1998.
- 11. Jalilov F.S., Pulatov L.T., Dzhalilova F.S., Sharipova O.Z., Meliboeva Sh. Sh. Analysis of sertraline from biological fluids by thermal desorption surface ionizing spectroscopy. Journal of Pharmaceutical Innovation.-2020, 9(6), 603-606.
- 12. Iskhakova, S. S., Khasanov U., Dzhalilov F., Dzhalilova F. (2019). THERMAL DESORPTION SURFACE-IONIZATION SPECTROSCOPY: HIGHLY SENSITIVE DETECTION OF Trace SYNTHETIC CANNABINOIDO V INDAZOLE DERIVATIVES IN SMOKING MIXTURES. 222.
- 13. Dzhalilova, F. S., Dzhalilov F. S., Musaeva D. M. (2009). QUANTITATIVE ANALYSIS OF TRAMADOL AND BLOOD AND EGO INTERPRETATION. Biological Psychiatry, 34(7), 1357–1358.
- 14. Jalilova F.S. (2022). ANALYSIS OF TRAMADOL IN BIOLOGICAL OBJECTS IN FORENSIC CHEMICAL PRACTICE. Topics Journal of Chemistry, 6(1).
- 15. Dzhalilov, F. S., Zokirova, G. R., Mustafaev, Yu. G., Bekchanov, B. S., Dzhalilova, F. S., Pulatova L. T. (2019). Determination of traces of certraline in blood using thin layer chromatography. Bulletin of Science and Education, (23-1(77)), 108-110.
- 16. Murodova N.A., Yuldasheva Sh.H., Dzhalilova F.S., Norova H.U., Dzhalilov F.S. Quantitative determination of the content of micro- and macroelements using the ISP MS method in Indian pomegranate fruits. Manager science and pharmacy: material of the XIII sciences practical . conf . , m.b. Kharkov, 17 Trav. 2019. Kh.: NUPh , 2019. P. 180-181.
- 17. Boltaev , M. M., Meliboeva Sh. Sh. k., Dzhalilov F.S., Yuldasheva D.Kh., Dzhalilova F.S., Samadov B.Sh. (2022). APPLICATION OF BROCCOLI AND BROCCOLI SPROUTS IN THE PREVENTION AND TREATMENT OF VARIOUS DISEASES. Journal of Chemical and Traditional Medicine, 1(4), 242-254.
- 18. Samadov, B. Sh., Dzhalilov F. S., Yuldasheva D. Kh., Dzhalilova F. S., Boltaev, M. M., Meliboeva Sh. Sh. k. (2022). CHEMICAL COMPOSITION OF THE MEDICINAL PLANT MOMORDICA CHARANTIA L USED IN FOLK MEDICINE. Journal of Chemical Products and Traditional Medicine, 1(4), 134-161.
- 19. Samadov B. Sh., Dzhalilova F. S., Dzhalilov F. S. CHEMICAL COMPOSITION OF THE FRUIT "MOMORDICA CHARANTSIA L" GROWN IN THE CONDITIONS OF THE BUKHARA REGION OF THE REPUBLIC OF UZBEKISTAN. Material of the IX International Scientific and Practical Internet Conference "Random Reach of Pharmacist Technologies". Kharkov, NUPh . Editorial College. 2021. P. 3-7.
- 20. B.Sh. Samadov, F.S. Dzhalilova, F.S. Jalilov, N.A. Murodova. Charantia L." Material of the IV International Scientific and Practical Conference. Kharkov, NUPh, 2020. pp. 426-430.
- 21. Samadov , B. Sh., Dzhalilova, F. S., Dzhalilov, F. S., Murodova N. A. (2020). PHARMACOLOGICAL PROPERTIES AND CHEMICAL COMPOSITION OF MEDICINAL

- PLANT RAW MATERIALS "MOMORDIKA CHARANTIA L". A new day in medicine. Scientific abstract, spiritual and educational journal, 1, 29.
- 22. Samadov, B. Sh., Dzhalilov, F. S., Dzhalilova F. S. (2020). GROWING THE MEDICINAL PLANT "MOMORDITSA KHARANTSIA L" IN THE CONDITIONS OF THE BUKHARA REGION. Bulletin of Science and Education, (21-1(99)), 92-98.
- 23. Samadov, B. Sh., Dzhalilov, F. S., Dzhalilova, F. S., Sharipova E. M. (2021). CHEMICAL COMPOSITION OF MEDICINAL RAW MATERIAL "MOMORDITSA KHARANTSIA L", GROWED IN THE CONDITIONS OF BUKHARA REGION OF THE REPUBLIC OF UZBEKISTAN. Bulletin of Science and Education, (15-1), 106-110.
- 24. Samadov B.S., Jalilova F.S., Ziyaeva D.A., Sharipova D.S., Ozodova N.Kh., Norova Kh.U. and Kudina O.V. (2020). Pharmacological properties and chemical composition " Momordica " Charantia L.
- 25. Samadov, B. Sh. (2020). Jalilov Fazliddin Sodikovich, Jalilova Feruza Sodikovna. GROWING THE MEDICINAL PLANT "MOMORDITSA KHARANTSIA L" IN THE CONDITIONS OF THE BUKHARA REGION. Bulletin of Science and Education, (21-1), 99.
- 26. Samadov, B. Sh. (2020). Jalilov Fazliddin Sodikovich, Jalilova Feruza Sodikovna. GROWING THE MEDICINAL PLANT "MOMORDITSA KHARANTSIA L" IN THE CONDITIONS OF THE BUKHARA REGION. Bulletin of Science and Education, (21-1), 99.
- 27. Samadov B.S., Dzhalilova F.S., Dzhalilov F.S. (2022). COMPOSITION AND TECHNOLOGY FOR COLLECTING INDIAN POMEGRANATE OBTAINED FROM MEDICINAL PLANT RAW MATERIALS. Editorial College, 40.
- 28. Samadov B.S., Dzhalilova F.S., Dzhalilov F.S. (2022). ANALYSIS OF COMPONENTS FOR COLLECTION OF MEDICINAL PLANT RAW MATERIALS OF INDIAN POMEGRANATE. Editorial College, 43.
- 29. Samadov B.S., Dzhalilova F.S., Dzhalilov F.S. (2022). PROSPECTS FOR OBTAINING DOSAGE FORMS BASED ON MOMORDICS CHARANTIAL. Editorial College, 37.
- 30. Samadov B.S., Dzhalilova F.S., Dzhalilov F.S. (2022). PROSPECTS FOR OBTAINING DOSAGE FORMS BASED ON LOCALIZED INDIAN POMEGRANATE. Editorial College, 169.
- 31. Samadov , B. Sh., Dzhalilov F. S., Yuldasheva D. Kh., Dzhalilova F. S., Boltaev , M. M., Meliboeva Sh. Sh. k. (2022). APPLICATION IN FOLK MEDICINE FRUITS MEDICINE PLANTS MOMORDITSA CHARANTIA L. Journal of chemistry of goods and traditional medicine, 1(4), 117–133. https://doi.org/10.55475/jcgtm/vol1.iss4.2022.76
- 32. Samadov , B. Sh., Dzhalilov F. S., Yuldasheva D. Kh., Dzhalilova F. S., Boltaev , M. M. and Meliboev's daughter , Sh. Sh. (2022). CHEMICAL COMPOSITION OF THE MEDICINAL PLANT MOMORDICA CHARANTIA L USED IN PEOPLE'S MEDICINE. Journal of Chemical Products and Traditional Medicine, 1(4), 134-161. DOI: https://doi.org/10.55475/jcgtm/vol 1.iss 4.2022.86
- 33. Samadov B.S., Dzhalilova F.S., Dzhalilov F.S. (2022). PROSPECTS FOR OBTAINING DOSAGE FORMS BASED ON MOMORDICA CHARANTI L. Scientific progress, 3(8), 29-32.
- 34. Samadov B.S., Dzhalilova F.S., Dzhalilov F.S. (2022). PROSPECTS FOR OBTAINING DOSAGE FORMS BASED ON LOCALIZED INDIAN POMEGRANATE. Scientific progress, 3(8), 33-41.
- 35. Samadov B.S., Dzhalilova F.S., Dzhalilov F.S. (2022). COMPOSITION AND COLLECTION TECHNOLOGY OF MOMORDICA CHARANTIA L , OBTAINED FROM MEDICINAL PLANT RAW MATERIALS. Scientific progress , 3(8), 42-48.

- 36. Samadov B.S., Dzhalilova F.S., Dzhalilov F.S. (2022). ANALYSIS OF COMPONENTS OF THE MOMORDICA MEDICINAL PLANT RAW MATERIALS COLLECTION CHARANTIA L. Scientific Progress, 3(8), 49-57.
- 37. Samadov B.S., Zhalilov F.S., Zhalilova F.S. (2022). HYPOLYPIDEMIC ACTIVITY OF THE MEDICINAL PLANT MOMORDICA KHARANTIYA. Scientific and medical bulletin of the Central Chernozem region (Scientific and medical newspaper Central Chernozem ', (89), 57-69.
- 38. Samadov , B. Sh., Dzhalilov F. S., Dzhalilova F. S. (2022). ANATOMICAL STRUCTURE OF THE MEDICINAL PLANT MOMORDICA CHARANTIA L. Journal of Chemical Products and Traditional Medicine, 1(5), 123-149. https://doi.org/10.55475/jcgtm/vol1.iss5.2022.109
- 39. Samadov B.S., Dzhalilov F.S., Yuldasheva D.Kh., Jalilova F.S., Boltaev M.M. and daughter Meliboev S.S. APPLICATION IN FOLK MEDICINE OF THE FRUITS OF THE MEDICINAL PLANT MOMORDICA CHARANTI L.
- 40. Samadov B.S., Jalilov F.S., Yuldasheva D.Kh., Boltaev M.M. and daughter Meliboev S.S. CHEMICAL COMPOSITION OF THE MEDICINAL PLANT MOMORDICA CHARANTIA L USED IN TRADITIONAL MEDICINE.
- 41. Dzhalilova F.S., Yuldashev Z.A., Dzhalilov F.S., Nazarov B.B. DEVELOPMENT OF CONDITIONS FOR ANALYSIS OF TRAMADOL BY THERMAL DESORPTION SURFACE IONIZING SPECTROSCOPY METHOD. "A new day in medicine" 2 (34/1) 2021.