



Methods of detecting biochemical substances contained in the sedan plant

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ABSTRACT

The growth of a healing sedan is widely used in folk medicine. Ibn Sino and Giyosdin Algerians studied the medicinal properties of the sedan plant and used it in folk medicine. Today, xalgae-resistance methods of treating sedan growth have been approved by medicine. In addition, Ibn Sino, O.Sodiqov, A.Kholmatov, and U.S.A..

Keywords:

Sedan growth, byuks, mufel furnace, missingor, ash content, GOST, OST, VTSH, Flavonoids, Collar, acetic acid, "Silufol", aluminum chloride, ultraviolet light.

1.Determination of humidity of the sedan

To determine the humidity in the sedan plant, I put 3 grams of sedan in a specific size byuks. I heated it in a mufe l oven at 100-105 degrees Fahrenheit [-100 to 105 degrees Celsius] and cooled it in a container and measured its mass. Its mass decreased compared to the previous one. That is, it remained 2.76 grams. I did the same thing twice more. In the second, it fell to 2.52 grams. And when I heated it up for the third time, the mass remained unchanged at 2.52 grams. From now on I calculated how much moisture was.

Primary mass-3 grams

Dried well mass-2.52 grams

Intermediate difference -0.48 grams

Total percentage - 16 percent

I found that based on these results, the Sedan plant contains a 16% content of water.

2. Determination of total amount of ash of the sedan plant

To do this, I used the results in the above moisture detection. The total amount of gray varies for each plant, and the allowable amount is indicated in GOST, OST, VTSH and state pharmacopia. If the sedan is picked from dirty ground, then of course there will be a lot of common ash and dead ash. Therefore, ash, like moisture, is a pointer that helps determine the quality of the product.

In the following way, I determined the amount of ash in the sedan plant.

Weighing the analysis, I brought the Sedan plant to a constant weight of 2.52 grams and put it on the chin. I heated the alcohol bulb until it caught it in a flare. When the smoke billowing ended, I heated it up at 500 degrees Fahrenheit [-500°C] until it came to a permanent theft in a muffin oven. Each time I took the mufel out of

the oven and cooled it in the incliter and determined its mass. As he did, he began to become ashes, I determined his mass. The previous three grams [3 grams] of Sedan ash was 0.42 grams [0.42 grams]. The percentage was 14%[11,14].

3. Determination of extractive substances contained in sedan vegetation

The sedan plant contains a lot of physiologically active substances, some of which I had quality reactions to[6,8].

Quality reactions for flavonoids

To determine the flavonoids contained in the plant, I put a gram of crushed and dried hom in a tube of 25-30 ml, poured 10 ml of 95 percent ethyl alcohol and heated it until it boiled in a water bath. After that, I thoroughly rinsed the tube and put it in for 3-4 hours. I filtered the resulting alcohol extract through a filter paper, concentrated the filtrate to 3-4 ml. So I steamed the alcohol in the water bath. I split the resulting extract in two equally and poured it into two probes. I poured three drops of concentrated chloride into each probe and put one of the probes in one of them from the Zn blood powder. I heated both probes to the point of boiling in a water bath and left them for 10 minutes. The resulting embryo was allowed to develop in nutrients and then inserted into her womb, where it implanted. I clearly distinguished the colors when we compared the dyeing to the second probe. This reddish-brown solution indicates the presence of flavonoids[11,14].

Reaction of flavonoids with ammonia

I added ammonia solution to a alcohol solution of flavonoids taken into the second container and heated it a little in the water bath. The resulting embryo was allowed to develop in nutrients and then inserted into her womb, where it implanted. Even when we conducted these reactions with a diarrhea solution, colored reactions occurred as above.

Reaction with ammonium chloride

I poured a few drops of a 5 percent solution of ammonium chloride into a solution of alcohol made from the plant. The resulting embryo was allowed to develop in nutrients and then inserted into her womb, where it rang.

Chromotographic tests for the detection of substances contained in the sedan plant

Chromotographic detection of flavonoids

To determine flavonoids in a chromatography way, I first put a gram of crushed sedan seeds in a 25 ml tube and poured 20 ml of alcohol into it. I boiled the tube in a water bath for 10 minutes. Then I took the tube out of the water bath and cooled it and filtered the solution using a paper filter. From the ready filtrate, I poured into the start line of the "Siloufol" plate using a capillary tube and dried it in the air. Then I placed the plaque in a chromatography with a mixture of acetic acid-water (4:1) into it and chromatography for 30-40 minutes. Then I took the plate and dried it in the air. 18 spots appeared on the plate. Compared to the ordinary eye, the first spot is good for pink halcons, the second and third spots are a hungry yellow color, that is, flavones, and when seen in ultraviolet light, our second and third spots appeared to be light yellow. The color of the spots on the plate then became clearer when I caught the plate in ammonia vapor. With this experience, I was convinced that the sedan plant contained flavonoids[10,11].

Reaction with aluminum chloride

I poured a few drops of a 5% solution of aluminum chloride into a 5 ml solution of alcohol made from sedan seeds. The resulting embryo was allowed to develop in nutrients and then inserted into her nutrients and then inserted into her wards. The results of the next two reactions were observed in the sedan. So there are also flavanoids in the sedan seed. I also checked this from the literature and provided information.

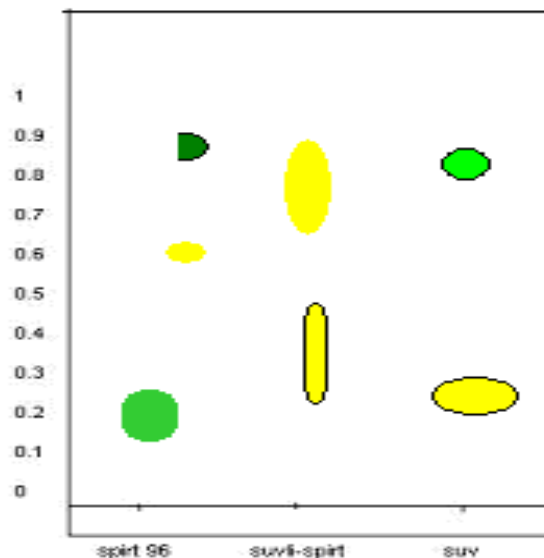
Thin layer chromatography

From an alcohol solution of separation and "witness" flavanoids to the start line of the "siloufol" plastic, I poured sprit (96%), aqueous-alcohol (1:1) water extracts at a distance of 2 cm. I placed a chromatographic colony with a solution of n-butanol, acetic acid, water (4:1:5) and reached the finish line in 30-40 minutes. I took it and dried it in the air and saw it using ultraviolet light. I marked the spots. (The chalks

gave yellow in juicy alcohol, orange in flavanol juicy, the color in the alcohol was not separated) Then I sprayed a 5% solution of aluminum chloride into the plate and saw it again in ultraviolet light. To distinguish color, I also

sprayed ammonia and saw it in ultraviolet light. I calculated the RF larvae and compared these RFs with the Rf of the witness module and confirmed that there were flavanoids in the sedan separation.

Yuhqa qatlam xromotografiyasi

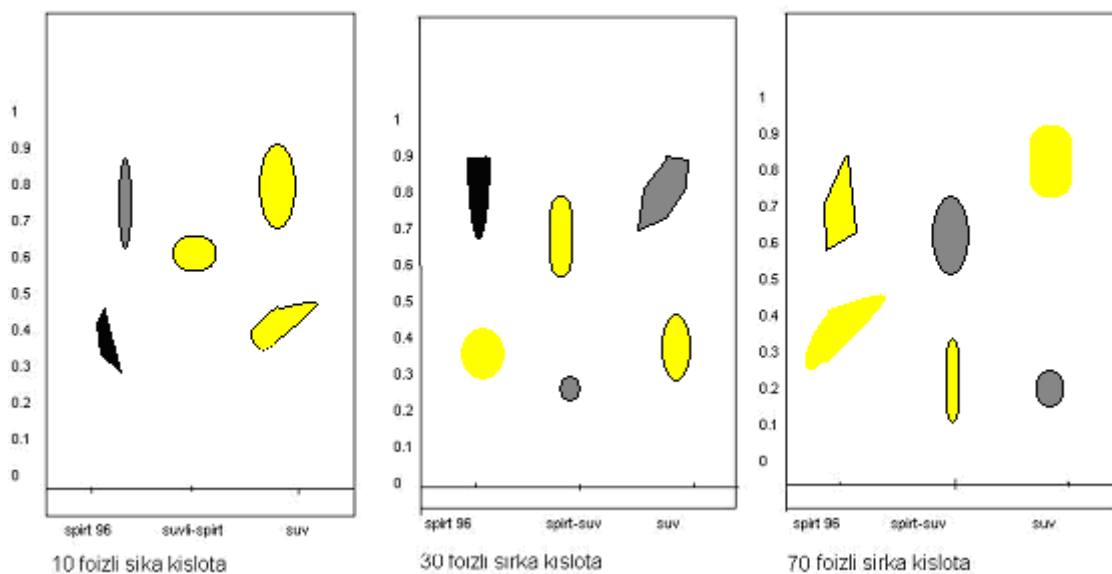


Qog'oz xromotografiya

Using a capillary tube on chromatographic paper, I poured alcohol (96%), aqueous alcohol, and aqueous extracts into the start line. I placed 70%, 30%, 10% of acetic acid in a chromatographic container with 10% solutions poured. After 12-15 minutes of chromatography lasted, I took it and dried it in the air. I saw it in

ultraviolet light. I marked alcohol, juicy alcohol (1:1), juicy spots. Then I saw 5% alcohol solution of AlCl₃ in purkab, or ultraviolet light. The formation of spots increased. When NH₃ was sprayed, the color of the spots was better revealed [15].

Qog'oz xromotografiyasi



Methods of analysis of alkaloids

Quality reactions to alkalosis

Quality reactions conducted to detect alkalyoids can be divided into two large groups:

1. General-sinking reactions.
2. Private (assuming to some alkaloids)

- color-resistant reactions.

1. The absence of alkalosis in plants is determined by the general reactions that enter the first group. But with the help of these reactions, it is impossible to determine what kind of alkalosis the plant contains. Alkalosis occurs in these reactions when exposed to reactants. Using the same properties, I reacted the following.

To do this, I dried the sedan plant with a mixture of 1-2 tomatoes on a glass plate from a solution in the chloroform, then melted it by adding a tomato 0.1-0.05 n chloroform. [10,17] Jehovah's Witnesses would be able to use our entity used by Jehovah's Witnesses in your country.

2. To determine whether the sedan contains alkaloids, I poured 25 ml of a 11 g% solution of chloride cylinder into a 100 ml [100 ml] cylinder and heated it in a water bath for 5 minutes. After the liquid in the cylinder cooled, I filtered. Several porcelain containers were filtered from several tomatoes, added to it from 1-2 tons of picnic acid, and after a while the lacquer was absorbed.

4. Chromatography analysis of alkalocides

All types of chromatography methods (adsorbic, ion-exchange, distribution, division, and shells) are widely used to analyze alkaloid-containing plants and alkalyoids. These methods can be used to distinguish between how many and what compounds (determining, or identifying) alkaloids, some of the collection of alkaloids, and how to determine the friendship of the ulagshing.

Determination of alkaloids contained in sedan growth in paper chromatographic way

Using a capillary spear (30-40 cm long, 12 cm wide), a capillary spear (2-3 cm high from the lower edge), I planted 0.1 ml [0.1 ml] of sedan growth and 2 inches [2 cm] in diameter. (5:1) Jehovah's Witnesses would be pleased to assist individuals desiring to benefit the worldwide work of Jehovah's Witnesses

through some form of charitable giving, a brochure entitled Charitable Planning to Benefit Kingdom Service Worldwide has been prepared. (Matthew 24:14; 28:19, 20) I was diagnosed with amyotrophic lateral sclerosis variations of it, or ALS, which finally left me totally paralyzed. After the time shown, I took the chromatogram from the camera, dried it, and sprayed it with a Dragendorff reactant. The resulting embryo was then inserted into her womb, where it implanted. So I discovered that the sedan plant contained alkaloids 5 mm [10].

5. Identification of alkaloids contained in sedan growth in a thin-storey chromatographic way

Using a capillary tube to the "start" line of the silhouette plastic, I used a sedan-shaped separation and a solution of "guvoh" alkaloids from 0.1 ml (not larger than the diameter of the tomatoes). After the dogs dried up, I put the plastic in a chloromatographic camera, which was placed in a mixture of liquids (in the ratio of atseton - dietilamine (5:4:1). After 30-40 minutes of chromatography time, I took the plastic out of the camera, dried it up and sprayed it with a Dragendorff reactive. The resulting embryo was allowed to produce nutrients and then inserted into her womb, where it implanted. Extracts and testifying substances made from sedan growth were distinguished by the same spots. So I discovered that the plant contains alkaloids 5 mm [17].

6. The role of investment in the extraction of physiologically active substances from sedan growth

As president of the Republic of Uzbekistan Islam Trump mentioned in his speeches at the Cabinet of Ministers dedicated to the end of socio-economic development of our country in 2013 and the most important priorities of the economic program for 2014:

"We must always remember a simple truth. That is, there is no investment-free development, it is impossible to imagine without investment the modernization of production and the modernization of our country in general, the renewal of technology and technology." [1,2]

In the transition to a poor economy, it is important to study theoretical and practical aspects of improving the efficiency of analyzing the economic mechanism for attracting foreign investment in countries.

Therefore, it is impossible to implement and modernize structural changes in the economy, re-equip enterprises with modern technology, and promote the production of competitive products without attracting foreign investment, especially in leading networks. Attracting foreign investment in the country's economy will be an important factor in ensuring the power of our state by accelerating the expansion of its economic capabilities, employing domestic opportunities and reserves in all sectors, developing new technologies and technology, export-oriented goods, and promoting their production.

From this point of view, it is important to attract investment in the processing of the sedan plant that grows in Uzbekistan. Because investment tools play a major role in improving the extraction and detection of essential oil, alkaloids, carbohydrates and flavonoids from the sedan plant and in promoting the acquisition of medicinal preparations from this plant.

Now much attention is paid to the development of the pharmaceutical industry. One of the most important aspects of the development of this industry is the expansion of the production of the most necessary import-substituting drugs in these quality and acceptable enterprises. To this end, the task of the State Joint-Stock Concert of the Pharmaceutical Industry of Uzfarmsanoat is to coordinate the activities of organizations of pharmaceuticals, biopreparations manufacturers, and to provide medicine to the population [18].

Therefore, it is relevant to distinguish pharmaceutical active substances from plants and to use them in medicine in our country. From this point of view, I studied the growth of sedans by separating medicinal components that prevent diseases in medicine. Therefore, it is very relevant to establish manufacturing companies by attracting investment in the extraction of physiologically active substances

used in medicine from the sedan plant and the preparation of medicinal preparations.

Conclusion

The healing of a sedan plant growing in Uzbekistan has been studied by many scientists. A chemical analysis of the sedan plant and a study of its healing resulted in the following conclusions.

1. According to the collected materials, the plant was found to contain vitamin C, kumarins, flavonoids, essential oil, steroids, triterpen saponins, alkaloids, xinons, kumarins, fat, proteins, carbohydrates, and other substances.
2. For the first time, a comprehensive analysis of sedan growth from the Pop district of The Province of Badakhshan was conducted.
3. The humidity of the sedan plant, the total amount of ash was determined and extractive substances were extracted from the plant.
4. Qualitative reactions were made to extractive substances: flavonoids and alkaloids separated from the sedan composition.
5. Based on the fact that sedan growth has long been used in many diseases, various droplets made from it have been shown to be used in folk medicine and medicine.

The Bible's Viewpoint

1. Yunusov L.Yu. To'qimachilikda qo'llaniladigan yordamchi kimyoviy moddalar. 3-32 b
2. Yunusov L.Yu. Fiziko-ximicheskie svoystva natural'nogo shelka v protsesse pererabotki kokonov. Tashkent. Fan, 1978, -148 s.
3. Alimova X.A. Bezotxodnaya texnologiya pererabotki shelka. Tashkent «FAN», 1994 g.
4. Karimov SH., Yunusov A., Yunusov I. Fiziko-ximicheskie svoystva novix PAV i primeneniye ix v kokonomotanii. Uzbekskiy ximicheskij jurnal, 1988, - № 3, - 47-49 s.
5. Alekseyeva, K.L. Patent 2160000 Rossiyskaya Federatsiya Sposob

- stimulyatsii rosta shampinyonov i veshenki Tekst. / Alekseyeva K.L.; Malevannaya H.H. Data publikatsii 11.03.2007 g.
6. Axmedova Z.R., Sattarov M.E., Xamrayeva Z.T., Gulyamova I.T., Xalmurzayeva B.A., Maxatova A.I. Fitogormoni sellyuloliticheski aktivnix gribov *Aspergillus terreus* 9 i *Pleurotus ostreatus* UzBI-1105 //Sbornik trudov mejdunarodnoy nauchno-prakticheskoy konferentsii «Innovatsionniye texnologii v povishenii kachestvennogo obrazovaniya i nauki - 2010», Respublika Kazaxstan, g. Shimkent, 2010 g., 211-214 s.
 7. Belova, N.V. Bazidiomitseti istochniki biologicheskii aktivnix veshestv / N.V. Belova // Rastitelniye resursi. — 1991. — Vip. 2, T. 27. - S. 812.
 8. Bisko, H.A. Vliyaniye bakteriy roda *Bacillus* na jiznedeyatelnost veshenki obiknovennoy *R. ostreatus* (jacq.fr.) kumm. v chastichno zamknutoy iskusstvennoy ekosisteme / H.A. Bisko, V.T. Bilay // Mikologiya i Fitopatologiya 1995. - Vip. 5 - 6, T. 29. - S. 1-7.
 9. Bisko, H.A. Visshiy syedobniye bazidiomitseti v poverxnostnoy i glubinnoy kulture / H.A. Bisko, A.C. Buxalo // Kiyev: Nauk, dumka, 1983. -S. 347.
 10. «Gribi». Spravochnik. / per. s ital. F.Dvin– Moskva: AST. Astrel, 2004. – 303 s (str. 146).
 11. «Gribi. Spravochnik-opredelitel. Boleye 120 vidov» / Avtor-sostavitel N.YE.Makarova– Moskva: AST, Minsk: Xarvest, 2005-320 s (str. 238).