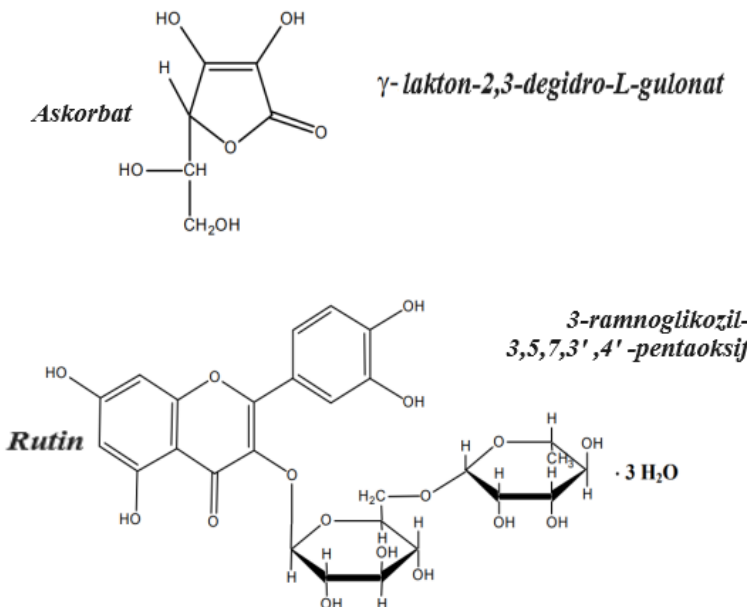


ASKORUTIN TABLETKASI TAHLILI

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Tarkibi:

Askorbat	0.05	 <p style="text-align: center;"><i>Askorbat</i> <i>γ-lakton-2,3-degidro-L-gulonat</i></p> <p style="text-align: center;"><i>Rutin</i> <i>3-ramnoglikozil-3,5,7,3',4'-pentaoksifl</i></p>
Rutin	0.05	
Yordamchi moddalar (shakar, kraxmal, kaltsiy stearat, talk)	0.33	

Tavsif. Tabletka och yashil-sariq rangga ega.

Chinligini aniqlash

0,2g tabletka kukuni 8 ml suv bilan aralashtirilib, filtrlanadi. Filtrning bir qismiga 1ml 5% li fosfor-molibden kislota eritmasidan solinadi; ko'k rang paydo bo'ladi (askorbin kislotasi).

0,1g tabletka kukuni 5ml 95% etanol qo'shib aralashtiriladi, 5 tomchi konsentrlangan xlorid kislotasi va 0,09g magniy qirindisi qo'shilganda qizil rang paydo bo'ladi (rutin).

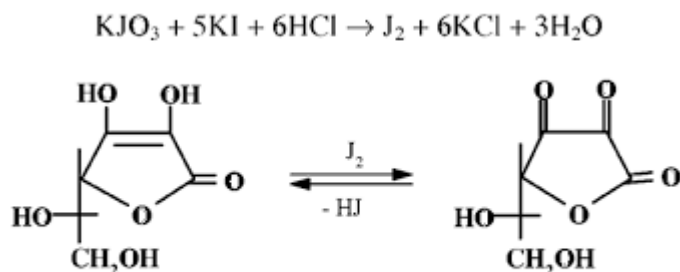
Miqdoriy tahlil

Askorbin kislotasi. 0,3g tabletka kukuni 100ml hajmli o'lchov kolbasiga solinadi, eritmaning hajmi suv bilan belgilangan belgiga to'g'rilanadi, aralashtiriladi va filtrlanadi, dastlabki 10ml tukib tashlanadi. Olingan eritmadan 10ml 100 ml hajmli konussimon kolbaga solinadi, unga 1ml 2% li xlorid kislotasi eritmasi, 0,5ml 1% li kaliy yodid eritmasi, 2 ml 0,5% kraxmal eritmasi, umumiy miqdorgacha suv solinadi. Hajmi 20ml ga teng va kaliy yod eritmasi (0,0167 mol/l) bilan doimiy och ko'k rang paydo bo'lguncha titrlanadi.

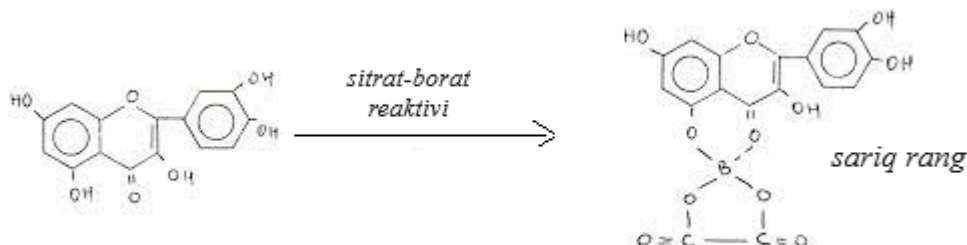
Bir vaqtning o'zida, nazorat tahlil o'tkaziladi. Buning uchun konussimon kolbaga 1ml 2% li xlorid kislota eritmasidan, 0,5ml 1% li kaliy yodid eritmasidan, 2ml 0,5 % li kraxmal eritmasidan, umumiy hajmi 20 ml gacha suv solinadi va kaliy yodat eritmasi (0,00167mol/l) bilan doimiy och ko'k rang paydo bo'lguncha titrlanadi.

Askorbat miqdori kaliy yodat nazorat va tajriba namunalardagi sarfi kursatgichiga qarab sarflanadi.

1mi kaliy yodat eritmasi (0,00167mol/l) 0,0008306g C₆H₈O₆ (askorbin kislota) ga to'g'ri keladi. 1ta tabletkada 0,04625g dan 0,05375g gacha askorbin kislota bo'lishi kerak.



Rutin. 0,3g tabletkada kukuni 40ml issiq metanol yoki issiq issiq etanol bilan aralashtiriladi. Sovitilib 100ml o'lchamli kolbaga o'kaziladi, belgisigacha atsetin eritmasi qo'shiladi aralashtiriladi va filtrlanadi. Dastlabki 10ml tukib tashlanadi. Keyingi eritmada quruq atsentonda ikkinchi suyultirilgan eritma tayyorlanadi, unda rutin miqdori 1ml uchun taxminan 0,1mg. 2ml hosil bo'lgan eritmaga 8ml sitrat-borat reaktiv qo'shiladi, aralashtirilib qorong'i joyda 10 daqiqa qoldiriladi. Yashil-sariq rangli eritma FEKda 420nm tulqin uzunligida 10 mm qalinlikdagi kyuvetada ulchanadi. Taqqoslash uchun aseton ishlatiladi. Parallel ravishda rutin standart eritmasi ham tekshiriladi. Buning uchun 8 ml sitrat-borat reaktiviga 2ml rutin eritmasi qo'shiladi va yuqorida ko'rsatilganidek amaliyot bajariladi.



Xulosa. Dorixonada sotiladigan analiz uchun tanlab olingan tabletkada tahlili standartga muvofiq o'tkazildi va foydalanishga yaroqli deb topildi.

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