

SPIUR SANITIZER

Spiur, extracted from nature and knowledge











Alcohol-Free Anti-Germs







Hand Sanitizer

Greatly recommended for protecting you against all pathogenic micro-organisms, capable of destroying various kinds of Norovirus and Enveloped virus (including the coronavirus), which can get rid of 99.999% of pollutions in 30 to 60 seconds, in compliance with the Iranian National Standard No. 10504 and the TMU-V99/3-3 protocol.

The nanotechnology employed in this product can provide you with the highest levels of sanitization without alcohol.

The pH of the product is set in a way that it is compatible with the hand's skin and carries the least amount of negative effects on it.

How to use

Shake the bottle well before use. Pour a sufficient amount of the solution on the palm of your hands and rub gently until dry for 30 to 60 seconds. This product can be used when there is no object of physical pollution on your hand,

And there is no need for washing it with water afterwards.

Composition

Benzalkonium Chloride, Sodium acetate, Glycerin, Authorized essential oils, EDTA, Hydrogen peroxide, Authorized cosmetic essential oils, Deionized water.





Surface Sanitizer

The Spiur surface sanitizer is capable of cleaning up to 99.999% of the pollution on different surfaces without causing any unwanted effect, stain, or decolorization, which remains on the surface for 72 hours without needing to re-apply it.

This product is specifically effective on various types of viruses, including the coronavirus.

Other than cleansing, the nanotechnology used in this product can provide you with the highest level of alcohol-free sanitization for a long time and without the need for re-applying it.

How to use

Shake the bottle well before use. First, spray the solution around on the surface, and clean it off with a napkin after one minute.

Composition

Benzalkonium Chloride, Sodium acetate, Authorized essential oils, EDTA, Hydrogen peroxide, Authorized cosmetic essential oils, Deionized water.













Surface Sanitizer Anti-Germs

Alcohol-Free





Where is Spiur best to use?

This product is suitable for usage in every space and environment. Since Spiur sanitizers comply with national and international standards, they are guaranteed not to cause any tissue damages or regional sensitivity. The existing health protocols that this product follows allow you to use it in home, office, and industrial spaces. The performance of the Spiur alcohol-free sanitizers in destroying all germs, especially bacteria and common viruses, has been examined using all the necessary quality control tests.

- Restaurants/Kitchens
- Stores/All Markets
- Banks/Office centers
- Food and cargo trucks
- Tourism centers
- Public transportation vehicles
- Houses

- Schools/Educational institutes
- Kindergartens/Preschools
- Prisons/Detention centers
- Economic/Office/Apartment buildings
- Retirement houses/Safe houses
- Hotels/Motels/Inns
- Sport stadiums/Salons

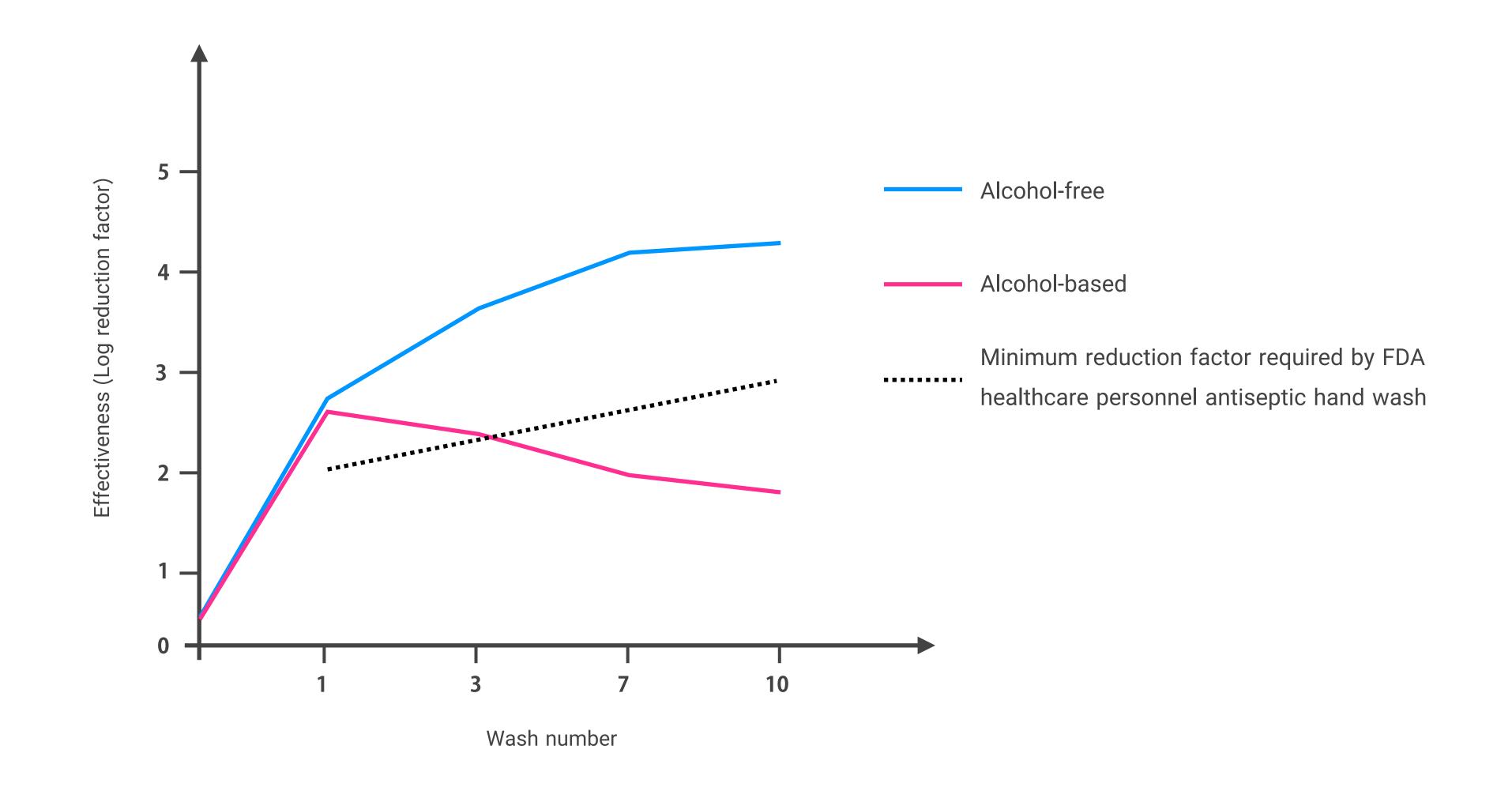


Important benefits of the Spiur alcohol-free sanitizers compared to alcoholic sanitizers



- Higher effectiveness and power compared to alcoholic sanitizers
 - Destroying 99.999% of the viruses, bacteria, and fungi in the matter of 30 to 60 seconds, in compliance with the Iranian National Standard No. 10504 and the TMU-V99/3-3 protocol.
 - Effectiveness against pollutions in case to repeated use (more info in the next page diagram).
 - Durability against bacteria and germs on the surface until 72 hours even after drying out.
- Greater economic value considering the greater durability and power compared to alcoholic sanitizers.
- It does not cause any stimulations, allergies, or damages to the skin, respiratory, digestive, and neural tissues.
- Capable of destroying all types of Norovirus and Enveloped virus, including the coronavirus, in the least amount of time.
- 100% alcohol-free and Triclosan-free.
 - Non-combustible
 - Suitable for children and the elderly
 - Suitable for all patients and help-seekers
 - No geographical restriction for usage
- Recommended by NHS, FDA, and World Health Organization (WHO) for usage instead of alcoholic sanitizers.

Alcohol-free vs. Alcohol-based Sanitizer; Antimicrobial Effectiveness with Repeated Use



Alkollü ve alkolsüz dezenfektanların Spiur ile karşılaştırılma tabloları

Benefits of using the Spiur sanitizers in medical activities	Alcoholic	Alcohol-free	Spiur
Washing out more than 99.999% of the pollutions in less than 30 seconds	No	-	Yes
Creating a biological defense	Yes	No	No
Suitable for children and patients	No	-	Yes
Effectiveness in case of repeated usage	No	-	Yes
Effectiveness against various types of viruses	Mostly	Yes	Yes
Effectiveness against various types of fungi	No	Yes	Yes

Benefits of using the Spiur sanitizers in non-medical activities	Alcoholic	Alcohol-free	Spiur
Drying of the skin	Yes	No	No
Poisonous and allergic	Yes	No	No
Hydration and anti-flammatory nature	No	-	Yes
Combustible	Yes	No	No
Suitable for repeated usage during day	No	Yes	Yes
Washing all the pollutions out without removing the natural skin fat	No	Yes	Yes

Economic benefits of the Spiur sanitizer in medicine	Alcoholic	Alcohol-free	Spiur
Amount used each time	High	Low	Low
The cost of usage, considering the effectiveness, durability, and effective time	High	-	Low
Reducing treatment costs especially for the skin	No	Yes	Yes
Available for shipping through airlines	No	Yes	Yes
No geographical restriction for usage	Yes	-	Yes



Introducing and testing the durability of the sanitizer



Introducing and testing the durability of the Spiur sanitizer solution



Part one of the durability test



Part two of the durability test



Part three of the durability test



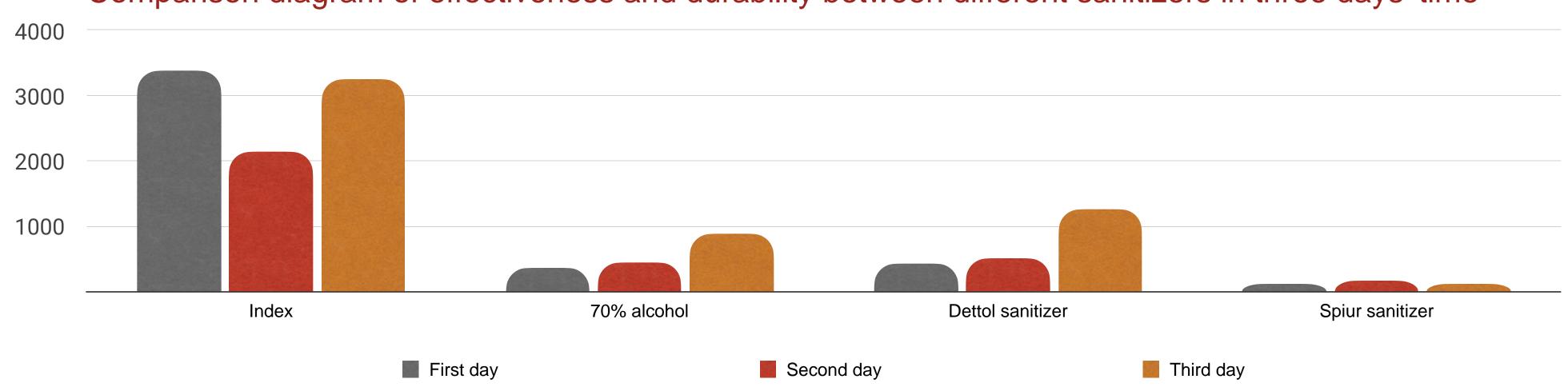
Part four of the durability test



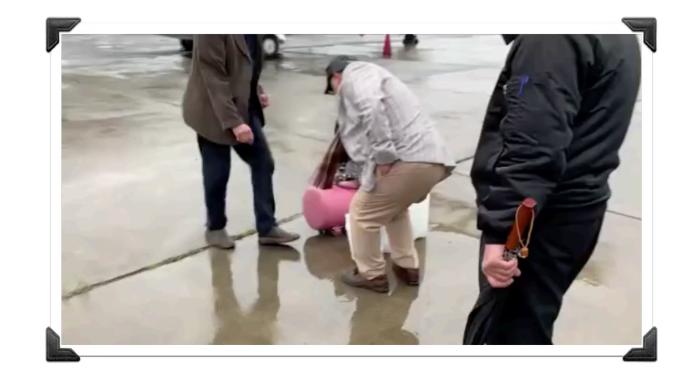
Reviewing the results of the empirical test (effectiveness and durability)

	Index	70% alcohol	Dettol sanitizer	Spiur sanitizer
First day	3379	365	439	120
Second day	2143	453	508	173
Third day	3250	887	1263	119

Comparison diagram of effectiveness and durability between different sanitizers in three days' time



Sanitizing the airline company by the Spiur team







<u>Part One</u> <u>Part Two</u> <u>Part Three</u>







Results of the sent tile cultivation which was coded with properties and also the operation-room tile that was simultaneously sampled in three stages is as explained below. It's worth to note the sampling and method used for cultivating which went as: the samples that were in direct contact with light for 24 hours in the operatingroom were taken to Nutrient broth and then after 24 hours of incubation, were taken to blood agar and EMBagar and were then checked for growth after 24 hours. The operating-room tile was sampled and cultivated simultaneously in the same way.

First step:

18/1./14

1. Coded tiles

No Growth After 24h

2. Operating-room tiles

No Growth After 24h

Second step:

1. Coded tiles

No Growth After 24h

2. Operating-room tiles

No Growth After 24h

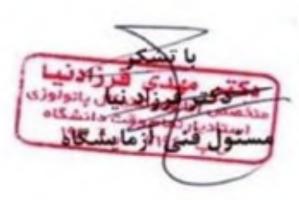
Third step:

1. Coded tiles

No Growth After 24h

2. Operating-room tiles

No Growth After 24h





Khatam Regarding the hospital product effectiveness laboratory confirmation

test The MTT تاریخ: ۹۹/۰۲/۳۱ شماره: الف/١٠١/ پیوست: ندارد

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Spiur sanitizer on

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Confirmation of zero negative

The MTT test:

investigating the poisonousness of the drugs and solutions on the cell line and measuring the amount of cell death

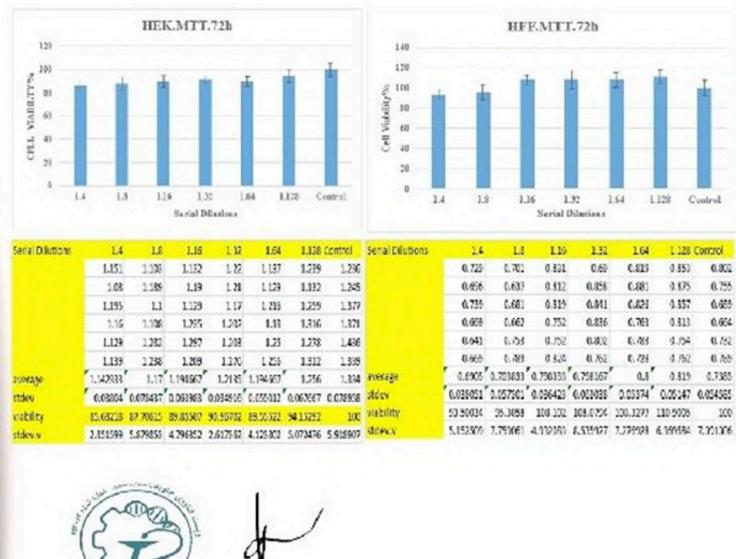


MTT test report

Dear Ariya Rahavard Behnood Health Group CEO,

Results from the MTT test of the sample (SPIUR sanitizer) on normal human fibroblast (HFF) and norman human epithelium (HEK293) in 72 hours are as mentioned below. Since the given sample was in liquid form, results are given as dilution. And each was repeated six times.

Note that no meaningful cytotoxic effects were seen in the test.





- 🔾 دفتر مرکزی: ننهوان، چهار راه ولبعصر، خیابان برادران مظفر جنوبی، ساختمان ۱۸، ورودی بی، واحد ۲۹
- www.javidbiotech.ir

- الله في: ١٧٤٧٤٥ (٢١)
- 🖨 تلفكس: ۶۶۹۵۲۵۲۱ (۲۱۰)



Bactericidal and germicidal effect

Tests inve

and chemical disinfectants sanitizers environments stigating the bactericidal activity of the used in medical Number

Date

Attachment

Material Quality Control L

www.kimialab.com

At the highest concentration meaning 3*10^8 bacteria per milli-liter every four times, due to the high concentration of the bacteria, the anti-bacterial material was ineffective and increased uncountably in numbers on the entire surface of the plate. In the table provided

At the highest concentration meaning 3*10^8 bacteria per milli-liter every four times, due to the high concentration of the bacteria, the anti-bacterial material was ineffective and increased uncountably in numbers on the entire surface of the plate. In the table provided, the rate of bacterial growth is shown with a positive sign. At 3*10^7 bacteria per mili-liter, this uncountable growth happens only by the 20-second mark, and by 60.4 seconds, the number of bacteria decreases, which shows in the lower densities. This anti-bacterial can meaningfully decrease the number of bacteria after 20 seconds. On the rest of the plates, the number of bacteria decreases following the bacterial latex and the anti-bacterial contact time. On the plate with 3*10^4 bacteria/mili-liter density, the bacteria is completely destroyed in 40 seconds, and the anti-bacterial effect lasts for 72 hours. Similar effects were shown for Gram-positive bacteria and Gram-negative bacteria.

2842, 15351, 10504 National Standards.

لیمیای ناب تجزیه زمایشگاه کنترل کیفی مواد

افتریدی تری مراتبارگا

KIMIA NAB E

Balouiri Mounyr, SadikiI Moulay, Ibnsouda SaadKoraich: Methods for in vitro evaluating antimicrobial activity: A review. Journal of Pharmaceutical Analysis: 6: 71–79:2016.



آدرس: کرج – کِمالشـهر، خیابان شهید بهشـتی بین ظفر ۹ و ۱۰ ساختمار کد پستی: ۹۹۶۶۷۴۳۶ تلفکس: ۵–۳۴۷۲۱۸۳۴–۲۶۰ همراه: ۸۵ 99/03/18

99/01/08 Number
Date
None Attachment



المساورة ال

Dear Ariya Rahavard Behnood Health Group,

In this method, the bacteria Staphylococcus aureus was used for its prevalence, presence on hand skin and Gram-positive nature of it and Escherichia coli bacteria were used for being Gram-negative.

In this study, a suspension of 3*10^8 bacteria/mili-liter equal to the turbidity of one standard MacFarland was acquired from the aforementioned bacteria. A serial dilution was performed on this suspension and was then given to a growth medium to ascertain the exact quantity of bacteria, each of the tubes.

And then the experiment with the anti-bacterial began. To each tube, a specific amount of anti-bacterial was added, and in the times 0, 20, 40, and 60 seconds were cultivated on standard growth medium and then incubation was done.

	ورئوس	باكترى استافيلوكوكوس ا	غفظت	I have the transfer and	Time
3×104 cfu/ml	3×105 cfu/ml	3×106 cfu/ml	3×10 ³ cfu/ml	3×10 ^a cfu/ml	
					0
	- Tent.				20 تپ
باكتريواستاتيك	رشد كمتر (باكتربوسايد)	رشد کعتر (باکتریوساید)	رشد کمتر (باکتربوساید)		40 ئې
باكتريواستاتيك	رشد كمتر (باكتربوسايد)	رشد كعتر (باكتريوسايد)	رشد کمتر (باکتربوساید)		60 ب
			محصول فوق خشقت کمتر باکتری را در زمان طولائی تر ۱۳۵ایه به حد معنی دار کم می کند	هدم اثریخشی در خلطت بالای باکتری	4
		کتری اشریشیاکلی	غلظت با		-de
3×104 cfu/ml	3×10 ⁵ cfu/ml	3×106 cfu/ml	3×10 ⁷ cfu/ml	3×10 ^a cfu/ml	
					0
					20 ئې
باكتريواستائيك	رشد كمتر (باكتربوسايد)	رشد كعتر (باكتريوسايد)	رشد کمتر (باکتربوساید)		40 تپ
باكتربواستائيك	رشد كمتر (باكتربوسايد)	رشد كمتر (باكتربوسايد)	رشد كمتر (باكتربوسايد)		60 تپ
	White S		محصول فوق خلطت کمتر باکتری را در زمان طولائی تر ۲۰ تاتیه به حد معنی دار	عدم اثریخشی در خلطت بالای باکتری	*

آدرس: کرج – کمالشـهر، خیابان شهید بهشـتی بین ظفر ۹ و ۱۰ ساختمان کیمیا، طبقه اول کد پستی: ۳۱۹۹۶۶۷۴۳۹ تلفکس: ۵-۳۴۷۲۱۸۳۴–۲۶۰ همراه: ۹۹۸۵ ۱۴۶ ۹۹۱۰

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been investigated in this test and tested instead because on the coronavirus directly, the Spiur hand sanitizer solution has peen blisters) has being fever Due to not al nature of the virus protocol). nplex (TMU-V Herpe

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زمایشگاه همگار ویروس شناسی دانشگاه علوم یزشکی دانشگاه تربیت مدرس برگ آنالیز



- نام سلول، تعداد پاساژ، محیط کشت برای کشت های سلولی : سلول ۷ero ، پاساژ ۲ تا ۲ ، DMEM ، ۶ تا ۲
- مشخصات منبع سویه و بروس و تعداد پاساز: و بروس هر پس سمبلکس ۱ (HSV-1) با تیتر ۱۰ بتوان ۸

روش مرجع	حد مجاز Log کاهش ویروس	ویروس با محصول (۴ دقیقه بند از تماس)	وبروس کنترل دوز تلقیح شده به سلول(۴ دقیقه بعد از تماس)	نوع ويروس مورد آزمون	رد يف
In House Method	≥4	مهار کامل ویروس	106	HSV-1	١

❖ نیتر استوک ویروسی 10⁸CCID50

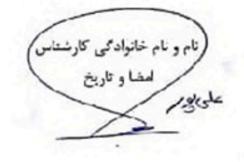
How to assess the activities of the sample sanitizer:

Assessment of the effectiveness of the sanitizer's concentration was done using logarithmic decrement calculation. Decrement meaning the difference between the infected titers without contacting the sanitizer (VRC) and the infected titer after contacting the sanitizer at an specific time of contacts; and whenever the product is tested by the test standards, a decrement equal to at least 4 common logarithm in infected titer must result.

Test Results: According to the evaluation done on the vero cell culture in the vicinity of Herpes simplex type 1 virus, the above-mentioned sanitizer compound performed as an anti-hepres virus after 4 minutes of contact. But in the concentrations 0.3 and 0.03 it's 70% toxic for the cell in comparison with alcohol control. Results hold true only for the given sample and with the stamp and signature of laboratory technician.







آدرس: تهرن، تقاطع خیابان جلال آل احمد و بزرگراه شهید چمران، دانشگاه تربیت مدرس، دانشکده پزشکی ۱، طبغه ۵، گروه نشاسی، تلفن: ۸۲۸۸۲۵۶۱



آ زمایشگاه همکار ویروس شناسی دانشگاه علوم پزشکی دانشگاه تربیت مدرس برگ آنالیز

0,7 -,7 -,-	C3r.),[.]m
ام قر آورده : شدعقونی کننده اسپیور	شماره فنی: -
وع فرآورده: محلول ضدعقونی کننده	کد آزمایشگاه: TMU-V-99/3-3
شرکت تولید کننده: گروه بهداشتی آریا رهاورد چنود	تاریخ دریافت: ۹۹٬۰۲/۲۴
رسال كننده: خانم اشرف اسادات حانميان	تاریخ شروع آزمایش: ۹۹/۰۴/۱۵
شماره سری ساخت: -	رفونس: In House Method
قیق کننده مورد استفاده برای محلول فر آورده آزمون آب سخت یا آب مقطر): نیاز به رقیق سازی ندارد.	علت ارسال: اولین سری ساخت
ناده یا مواد مداخله گردر شرایط تمیز و کثیف: ندارد	پایداری ماده: کاملا پایدار
ناريخ توليد: -	دعا یا دعاهای آزمون (برحسب °C): ۲۵ درجه سانتی گراد
ناريخ انقضا: -	دمای گرمخانه گذاری (برحسب °C): ۲۷ درجه سانتی گراد
ئاربرد فرآورده: ضدعفونی کنندهی دست	زمانهای تماس: ۴ دفیقه
نقدار، وزن، تعداد و حجم نمونه:یک لیتر	تاریخ جوابدهی: ۹۹/۰۴/۱۸
حوه ی نگهداری: نگهداری در دمای محیط	رقت توصیه شده فرآورده برای استفاده به وسیله تولید کننده: آماده ی استفاده
حوه ی تحویل نمونه: حدود یک لبتر در ظرف سفید نگ	نحوه آرشیو نموله: ۲۵ درجه ساتی گراد

Test Conditions	Test subject specification		
Technical name: -	الرن انتكاريت مرس الملكه يونثى اخذه كرودوير Product name: Spiur Sanit		
Lab code: TMU-V-99/3-3	Product: Sanitizer solution		
Receipt date:	Producer: Ariya Rahavard Behnood Health Group		
Test start date:	Sender: Ms. Ashraf-o-sadat Hatamian		
Reference: In House Method	Production series number:		
Submission reason: First production	No need for lowering the concentration		
Material stability: completely stable	No intervening material		
Temperature: 25 degrees	production date: - تاریخ تولید: -		
Warmroom temperature: 37 degrees	expiration date: -		
Exposure time: 2 minutes	Material usage: sanitizer		
Result time:	Sample volume: 1 liter		
recommended concentration for use: ready to use	conditions for keeping: room temperature		
archiving condition: 25 degrees	Sample deliverance: 1 liter in a white container		



آدرس: تهران، تقاطع خیابان جلال آل احمد و بزرگراه شهید جمران، دانشگاه تربیت مدرس، دانشکده بزشکی ۱، طبقه ۵، گروه ویروسی شناسی، تلفن: ۸۲۸۸۳۵۶۱ تاريخ: ١١١٥٠١١٩

آزمایشگاه زیست محصول پرشین



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worth noting that most of the bacteria

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The

Spiur hand

sanitizer

آزمایشگاه همکار وزارت بهداشت - معاونت غذا ودارو و ستاد ویژهٔ توسعهٔ فناوری نانو

Client: Ariya Rahavard Behnood Health Group Company				Sample: Hand Sanitizer Solution				
Sample rec	eipt date: 99/0	5/05	7 - 7-5	Trade Name: Spiur				
Test date:	Test date: 99/05/06				Production unit: Ariya Rahavard Behnood Health Group C			
Result date	: 99/05/11		-	Production series	or date: -			
Reference Method	Unit	5 mins	1 min	Bacteria amount in the first suspension	Bacteria Type	Sample Type		
10504	cfu/ml	<1.	1/7×1-*	1/4×1·*	E.coli			
10504	cfu/ml	<1.	۹.	1/4×1-4	Staphylococcus aureus			
10504	cfu/ml	۸٠	1/0×1-*	A×1. ⁴	Pseudomonas aeruginosa	Hand Sanitizer Solution		
10504	efu/ml	9.	1/ T ×1- ^T	۵×۱۰ ⁴	Enterococcus hirae			
19851	cfu/ml	<1.	۸-	1/1×1-1	Candida albicans			

Notes:

- Results of the test are only true for the given sample.
- The bacteria S. aureus (ATCC:6538), E.coli (ATCC:10538), P.aeruginosa (ATTCC:15442), C.albicans (ATCC:10231), Enterococcus hirae (ATCC10541) were used in the test.
- Temperature: 20 degrees centigrade.
- Interventor material: 0.3 gr/l Bovine serum albumin
- Neutralizer: 30 gr/l of polysorbate 80, 30 gr/l of saponin, 3 gr/l of lecithin
- The tested sample is confirmed on the mentioned bacteria in times 15, 30 and 60 minutes

ahsool.ir NT×1-* Staphylococcus aureus 8912, 88815562 مسئول فنی آزمایشگاه: دکتر ابراهیمی-قیاسوند

مسئول فني آزمايشگاه: دكتر ابراهيمي-قياسوند

Right hand elevator, ng, Mofateh subway station, 714984

آدرس: خیابان مطهری، جنب مترو مفتح، ساختمان پزشکان ۲۳۰ آسانسور دست راست، طبقه منفی ۳. کد پستی :۱٤١٥٧١٤٩٨٤ تلفن: ٢٢٥٥١٨٨٨ - ٢١٩٨٢٩٨٨ (٢٠)

The No. 10504 standard, in case of being confirmed, allows the product to be used in medical centers

آزمایشگاه زیست محصول پرشین

آزمایشگاه همکار وزارت بهداشت - معاونت غذا ودارو و ستاد ویژه توسعه فناوری نانو

Client: Ariya Rahavard Behnood Health Group Company					Sample: Surface	Sanitizer Solu	Right hand elevator, ring Motarish subway station, m, fam. ۲۳۰. و علاق با ۱۶۲۰ ۱۶۳۰ ۱۶۳۰ ۱۶۳۰ ۱۶۳۰ ۱۶۳۰ ۱۶۳۰ ۱۶۳۰ ۱۶۳	
Sample receipt date: 99/05/05 Test date: 99/05/06					Trade Name: Spiur Production unit: Ariya Rahavard Behnood Health Group Compa			
Reference Method	Unit	60 mins	30 mins	15 mins	Bacteria amount in the first suspension	Bacteria Type	Sample Type	
10504	efw/ml	<1.	<1.	1/f×1-*	1/0×1•*	E.coli		
10504	cfw/ml	<1.	۷۰.	1/7×1·*	1/Y×1-^	Staphylococcus aureus	S	
10504	cfu/ml	<1.	<1.	A×1·*	A×1· ^A	Pseudomonas aeruginosa	Surface Sanitizer Solution	
10504	cfw/ml	<1.	<1.	9×1.*	۵×۱۰ ^۸	Enterococcus hirae		
19851	cfw/ml	<1.	<1•	V1×1•	1/7×1· ⁴	Candida albicans		

- Results of the test are only true for the given sample.
- The bacteria S. aureus (ATCC:6538), E.coli (ATCC:10538), P.aeruginosa (ATTCC:15442), C.albicans (ATCC:10231), Enterococcus hirae (ATCC10541) were used in the test.
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مسئول فني آزمايشگاه: دكتر ابراهيمي-قياسوند



Adress : -3 Floor,Right hand elevator, 230 Clinical building Mofateh subway station. Motahari st, Tehran, Iran.

Post code: 1415714984 Tel: +9821-88968912, 88815562 آدرس: خیابان مطهری، جنب مترو مفتح، ساختمان پزشکان ۲۳۰ آسانسور دست راست، طبقه منفی ۳. کد پستی :۱٤١٥٧١٤٩٨٤ THE: : YEOOTAAA - YIPATPAA (17.)



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Surface sanitizer successfully obtained this

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The

standard.

standard, in case of being confirmed, allows the product to be used in medical centers



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