

Items	Performance parameter					
Appearence	Colorless to brown transparent solution (constants)					
Content (Ag)	Below 50000ppm (customizable)					
PH	4±0.5, 7±0.5, 10±0.5 (customizable)					
Particle Size	1-100nm (customizable)					
Density	1.07 g/ml					
Ag purity	99.99%					
Carrier	Water, ethanol, or other organic solvents (customizable)					

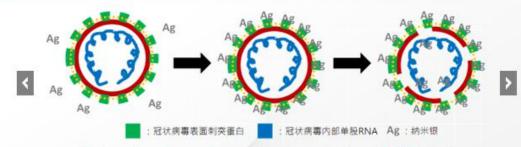
Kinda	bactericidal property	Virus- killing property	Fungue- killing property	Irritation	Safety	Duretion	Operation level	Disadvantsges
Nano silver	Excellent	Excellent	Excellent	Low	High (Non-carcinogen, no irritation)	Long	Easy (Dilute it with water)	Slightly higher price
Chlorine dioxide	Excellent	Excellent	General	Middle	Middle (Non-carcinogen, acid-needed cremation)	Short	General (Mix with two doses of A&B)	Fast degradation a nd very short effec t maintenance time
Sodium hypochlori te solution	Excellent	Excellent	General	Middle	Middle (Irritant to skin an d respiratory tract)	Short	Easy (Dilute it with water)	Irritant and poor persistence
Sodium hydroxide solution	Excellent	Excellent	Excellent	High	Low (Irritant and corrosiv e to skin and eyes)	Middle	Difficult (Dilution shall be ar ranged sequentially in the sa fe area)	Corrosive and irrita
75% ethanol (alco hol)	Excellent	Poor	Poor	Middle	Middle (Sensitive to skin and flammable)	Short	Easy (Dilute it with water)	High price, invalid for most viruses an d fungi
Hydrogen peroxid e	General	General	General	High	Low (Irritant to eyes and skin)	Short	Difficult (Irritant, need to be diluted in a safe area)	High irritation

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Schematic of nano silver acting on coronavirus (SARS virus)

Silver itself is a metal material with very high activity, which has very high mechanical adsorption and reaction fixation effect on protein. Through various studies, it is found that Silver has very good killing effect on various viruses, at present, the mechanism of Silver's anti-coronary virus is not very clear. It is speculated that there are two possibilities:

- Nano-silver will react with spike proteins on the surface of the virus, making the virus unable to infect other cells or directly kill the virus.
- other cells or directly kill the virus
 2. Nano-silver enters the virus and combines with the RNA of the virus, causing RNA to denature and losing viral activity.



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无机抗菌剂与 SARS-COV-P11 分别作用不同的时间后, 在 VERO E6 细胞培养内检测灭活的效果,以灭活效果%为指标

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SARS-COV-P11	25%	750	187.5	93.8	46.8	46.8
	50%	1500	375	187.5	93.8	93.8
	100%		750	375	187.5	187.5

注: 1. 表中药物稀释浓度的单位为 µ g/ml。

2. 表中数据为三次实验结果的平均值。



Test results of nano silver acting on SARS (SARS virus)



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奈米銀水溶液,具有抑制流威病毒 A型磁染細胞的能力,將奈米銀水溶液與病毒作用 後的液體加入細胞中,奈米銀水溶液可抑制流威病毒 A型,使病毒產生病毒斑的能力 (virus plaque forming)下降,實驗組為加入奈米銀水溶液的組別,而空白組為沒有加入 奈米銀水溶液的組別,相比實驗組與空白組結果,奈米銀水溶液對流威病毒 A型 H1N1 抑制率為 93.1 ± 0.7%,對流威病毒 A型 H3N2 抑制率為 49.9 ± 8.2%。

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Results of influenza a test at 10ppm nano silver





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具有抑制腸病毒71型、腸病毒68型、克沙奇病毒A16型感染細胞的能力。①先將奈 米銀水溶液與病毒作用後再加入細胞中,來得知奈米銀水溶液具有直接殺滅病毒的能 力,抑制率皆為100%。②先將奈米銀水溶液加入細胞中再加入病毒,來得知奈米銀水 溶液具有阻止病毒進入細胞能力,抑制率皆為100%。③先將奈米銀水溶液與病毒作用 後,再加入已含奈米銀水溶液的細胞中,來得知奈米銀水溶液具有直接殺滅病毒的能 力,以及具有阻止病毒進入細胞的能力,同時作用於這兩種路徑的加乘作用,抑制率 皆為100%。

Results of enterovirus and keshaqi test at 10ppm nano silver

