

# Jewel Silver A

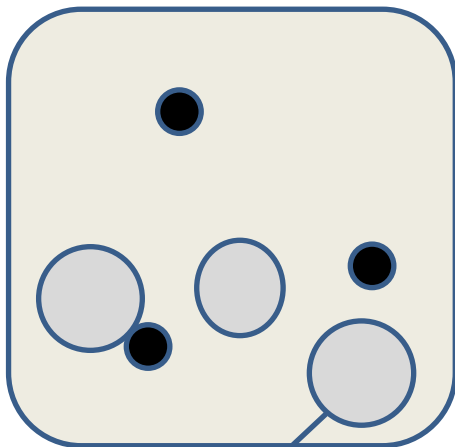
- Stable ionized Silver
- Natural ingredients
- Anti-virus effect(dosage: 0.6%)
- Preservative effect(dosage: 0.2%)

## Composition & Origin

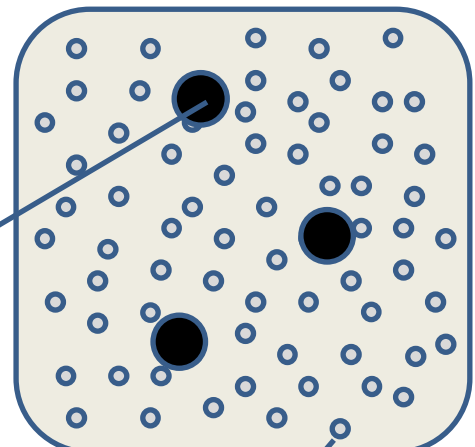
INCI name	Origin	Composition ratio
WATER	-	98.698%
ARGININE	Sugars	1.0%
PHYTIC ACID	Rice	0.25%
SILVER OXIDE	Mineral	0.052%(500 ± 20 ppm)

## Stable ionized Silver

Nano silver



JewelSilver



Ag particle

Ag ion

Stable Silver ion  
Non precipitation  
Small dosage

# Anti-virus effect

## Influenza virus

sample	Ag ion content(ppm)					
	12.5	6.25	3.13	1.56	0.78	MIC
1×10 <sup>7</sup> TCID <sub>50</sub> /25μl Influenza virus typeA(H1N1)	CT	-	-	+	+	3.13
Non virus solution	CT	-	-	-	-	

Reported by KITASATO RESEARCH CENTER OF ENVIRONMENTAL SCIENCES.

## Norovirus(RT-PCR method)

Sample	Ag ion content(ppm)	
	5	MIC
Norovirus solution	-	5
Non virus solution	-	

CT: Cytotoxicity

+ : CPE(cytopathic effect)

- : none CPE

Reported by Visionbio Corporation.

Jewel Silver A :Recommended dosage: 0.6~1%

## Preservative effects

Sample	Inocubated bacteria	Incubated bacteria count	Bacterial count(cella/g)			
			7 days	14 days	21 days	28 days
JewelSilver A 0.2% solution	1.E.c	1.7×10 <sup>6</sup>	<10	<10	<10	<10
	2.P.a	1.3×10 <sup>6</sup>	<10	<10	<10	<10
	3.S.a	1.0×10 <sup>6</sup>	<10	<10	<10	<10
	4.C.a	1.1×10 <sup>6</sup>	<10	<10	<10	<10
	5.A.b	1.7×10 <sup>5</sup>	2.6×10 <sup>4</sup>	3.7×10 <sup>2</sup>	5.0×10	<10

1.Escherichia coli

2.Pseudomonas aeruginosa

3.Staphylococcus aureus

4.Candida albicans

5.Aspergillus brasiliensis

Jewel Silver A :Recommended dosage: 0.2%