SGS INDEPENDENT TEST REPORTS USING HEALTHWEST HYDROCELL ON MPOX 2024

Several months ago, in August 2024, the World Health Organization declared the mpox outbreak in central and eastern Africa a Public Health Emergency of International concern. This was in the context of an emergent mpox strain, Clade Ib, which is likely to cause more severe disease, and its rapid spread throughout the Democratic Republic of Congo and neighbouring countries, highlighting the urgent need for practical solutions like HydroCell.

Australia has had several outbreaks, but according to the press, the outbreak was controlled several days later.

As proponents of using Silver Ions to maintain good health and use against diseases, we sent our HydroCell to SGS International to test against this mpox strain. SGS is an independent and world-leading testing, inspection, and certification company.

The result was 99.99% mpox virus "killed" in 5 mins; see virus strain and virucidal activity report on pages 3 and 4.

HydroCell works electrically as an antimicrobial and when combined with Oxygen, the effect is dramatically multiplied. This is why Silver has been the best antimicrobial for thousands of years until the introduction of antibiotics in 1940.
https://pubmed.ncbi.nlm.nih.gov/25418435/

It is reassuring to know that this independent test shows HealthWest HydroCell is effective against this mpox strain, offering an alternative to vaccines which can have side effects.

HydroCell uses nature's two most powerful healing agents, oxygen and Silver Ions, in a synergistic complex. Over two decades, no known side effects have been reported against HydroCell, providing a safe and effective health solution that you can trust. Moreover, HydroCell's versatility empowers you to use it in various ways. You can gargle it as a mouthwash to maintain good oral health, and it is safe to swallow.

HydroCell is declared Hypo-Allogenic and suitable for all skin types and children over five. The quality and purity of HydroCell is guaranteed to have no particles or nanoparticles and is safe to drink regularly for optimum health.

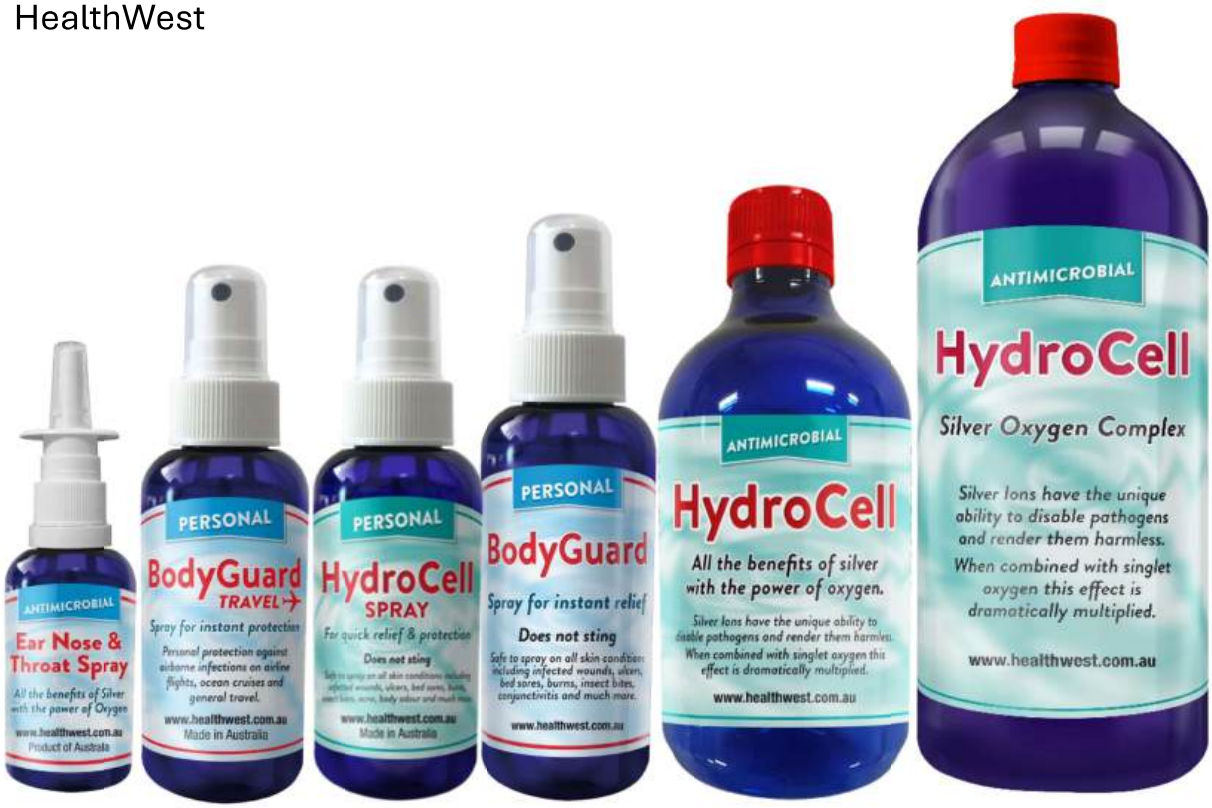
Pour a few drops of HydroCell into the nebuliser to freshen the room and spray in fridges to eliminate odour caused by rotting food and bacteria. Spray into air conditioners in rooms or cars to eliminate germs and experience the freshness of germ-free air in the room and vehicles.

Spray or soak some HydroCell into fungi-infected toes for a few minutes and a few times daily or other body parts to eliminate BO. Spray on chronic wounds and experience speedy healing.

HydroCell has been the 'Best family choice' for many years, providing immediate and visible results. It has the best home remedy for a variety of health concerns. HydroCell is practical, environmentally friendly, and is also suitable for pet use.

Keep a bottle in your pantry; you may never know when you will need it.

To good health
HealthWest



Test Report

JOB REF NO. : 2024-09-08-001
DATE RECEIVED : 09th September 2024
DATE REPORTED : 15th October 2024
PAGE : 1 of 14

Test Report No. : CPSA/241044368-CB62023

Company : **HEALTH WEST PTY LTD**
153 HICKS STREET
MUNDIJONG 6123 WA AUSTRALIA

The following merchandise was (were) submitted and identified by the client as:

Sample Description	:	HYDROCELL
Lab No.	:	VX-71-24-0005
Sample Appearance	:	Clear, colourless solution
Manufacturer	:	SGS (Malaysia) Sdn. Bhd. Lot 3 & 4, Persiaran Jubli Perak Seksyen 22, 40300 Shah Alam, Selangor Malaysia
Sample Receiving Date	:	09th September 2024
Storage Conditions	:	Room temperature
Product Diluent	:	Not applicable; ready-to-use-product
Testing Period	:	13th September 2024 – 24th September 2024
Test Requested	:	Determination of the Virucidal Activity
Test Method	:	EN 14476:2013+A2:2019 (E) Chemical disinfectants and antiseptics – Quantitative suspension test for the evaluation of virucidal activity in the medical area – Test method and requirements (phase 2, step 1)
Test Result	:	Please see the next page(s)
Tested by	:	The test was externally provided.
Remark	:	-

SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD

LOW ZHEN HUI
MULTI-BUSINESS LABORATORY MANAGER
FOOD ANALYST NO. MJMM 0178

Test Report

Test Report No. : CPSA/241044368-CB62023

Experimental Conditions

Virus strain	:	*Vaccinia virus*, strain Ankara, ATCC VR-1508
Cell lines	:	BHK-21 cells, ATCC CCL-10
Cell culture Medium	:	EMEM with 2% FBS
Concentrations	:	100.00* %
Interfering substance	:	0.30 g/L bovine albumin solution
Test Temperature	:	20°C ± 1°C
Incubation Period	:	5 days, 36 °C ± 1 °C

Test Method and Its Validation

Testing Method	:	Quantal test
Inactivation Method	:	Immediate dilution Molecular sieving using MicroSpin™ S 400 HR

The results of validation test A and B proved the viability of the method in all cases.

Test Results

The results are stated in Tables A and B.

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Conclusion

HYDROCELL showed the required viral reduction of ≥4.0 $\log_{10}$ against test strain *Vaccinia virus*, strain Ankara, ATCC VR-1508 in accordance with EN 14476:2013+A2:2019 (E) at 100.00* % concentration(s) after 5 minutes under the stated condition. According to the simple acceptance decision rule†, there is a minimal risk of false acceptance.

Note

Virucidal activity – the capability of a product to produce a reduction in the number of viable viruses belonging to reference strains under defined conditions by at least 4 orders (10^4).

$R = V_C/N_a$ = the reduction in viability, or $\lg R = \lg V_C - \lg N_a$

* The product can only be tested at 97.00 % concentration or less, as some dilution always occurs when test organisms and interfering substance are added.

† The decision rule applied is simple acceptance rule with no guard band and up to 50 % risk of false acceptance or rejection. This rule has been determined by the laboratory and agreed with the client prior to testing.

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Table A: Evaluation of the virucidal activity of Hydrocell on test strains according to EN 14476

Product : Hydrocell

Loading : 3.00 g/L Bovine Albumin Solution

Test Strain : *Vaccinia virus,* strain Ankara, ATCC VR-1508

Test concentration (%) / contact time (min)	Virus control, V_C	Cytotoxicity effect, CE	Average reduction, lg R	Percentage reduction (%)	Associated risk†
100.00* / 5	V_{C1}: 6.88 ± 0.37 V_{C2}: 7.13 ± 0.37	CE: 2.50 ± 0.00	lg R: **≥4.51 ± 0.37**	**≥99.99**	Minimal risk of false acceptance

* The product can only be tested at 97.00 % concentration or less, as some dilution always occurs when test organisms and interfering substance are added.

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Table B: Control tests and method validation for Table A

	Product Concentration	Dilution	Dilution (log_{10}) 1	2	3	4	5	6	7	8	9	10	log_{10} $TCID_{50}$/ml	$\Delta TCID_{50}$ < 1 lg
Cell Susceptibility Control	PBS	Without	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	3 3 2 0 3 3 2 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	6.25 ± 0.33	Pass? **Yes**
	100.00 %	1:10000	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	3 3 2 2 3 3 2 2	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	6.50 ± 0.00	

	Product Concentration	Contact Time (minutes)	Dilution (log_{10}) 1	2	3	4	5	6	7	8	9	10	log_{10} $TCID_{50}$/ml	$\lvert TCID_{50} - V_C \rvert$ ≤ 0.5 lg
Suppression Efficiency Control	100.00 %	30	t t t t t t t t	t t t t t t t t	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 2 4 2 3 3 4 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	6.38 ± 0.25	Pass? **Yes**
	Virus Control (V_C)	30	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	2 0 0 0 3 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	6.75 ± 0.33	

	Product Concentration	Contact Time (minutes)	Dilution (log_{10}) 1	2	3	4	5	6	7	8	9	10	log_{10} $TCID_{50}$/ml	lg R = V_C - Na
Reference Test	0.70 % Formaldehyde	5	t t t t t t t t	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	n.d.	n.d.	4.50 ± 0.00	3.00 ± 0.00
		15	t t t t t t t t	4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	n.d.	n.d.	3.50 ± 0.00	4.00 ± 0.00
	Virus Control (V_C)	0	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	7.50 ± 0.00	
		15	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	7.50 ± 0.00	
	Cytotoxicity Effect (CE)	-	t t t t t t t t	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	n.d.	n.d.	2.50 ± 0.00	

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Test Procedure

	Product Concentration	Contact Time (minutes)	Dilution (log_{10}) 1	2	3	4	5	6	7	8	9	10	log_{10} $TCID_{50}$/ml	
First Assay (Na_1)	100.00 %	5	t t t t t t t t	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	n.d.	n.d.	2.50 ± 0.00	V_{C1} - CE ≥ 4
														Pass?
	Virus Control (V_{C1})	0	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 0 0 0 2 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	6.75 ± 0.33	**Yes**
		5	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 2 0 0 4 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	6.88 ± 0.37	
	Cytotoxicity Effect (CE)	-	t t t t t t t t	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	n.d.	n.d.	n.d.	2.50 ± 0.00	

	Product Concentration	Contact Time (minutes)	Dilution (log_{10}) 1	2	3	4	5	6	7	8	9	10	log_{10} $TCID_{50}$/ml	
Second Assay (Na_2)	100.00 %	5	t t t t t t t t	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	n.d.	n.d.	2.50 ± 0.00	V_{C2} - CE ≥ 4
														Pass?
	Virus Control (V_{C2})	0	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	3 4 0 0 3 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	6.88 ± 0.37	**Yes**
		5	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 4 4 4 4 4 4 4	4 3 1 0 2 3 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	7.13 ± 0.37	
	Cytotoxicity Effect (CE)	-	t t t t t t t t	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	n.d.	n.d.	n.d.	n.d.	n.d.	2.50 ± 0.00	

Average Reduction (lg R)	Product Concentration	Contact Time (minutes)	First Assay (Na_1) log_{10} $TCID_{50}$/ml	lg R_1 = V_{C1} - Na_1	Second Assay (Na_2) log_{10} $TCID_{50}$/ml	lg R_2 = V_{C2} - Na_2	Average Reduction (lg R)
	100.00 %	5	≤2.50 ± 0.00	≥4.38 ± 0.37	≤2.50 ± 0.00	≥4.63 ± 0.37	≥4.51 ± 0.37

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Note

$TCID_{50}$: The dilution of the virus suspension that induces a cytopathic effect (CPE) in 50% of cell culture units.
CPE : The morphological alteration of cells and/or their destruction caused by the cytopathic effect of virus multiplication. '0' denotes no CPE and '1' (approximately 25% of cells) to '4' (all cells) denotes the degree of CPE per cell culture units.
V_C : log_{10} $TCID_{50}$ per mL in the viral test suspension at the beginning and at the maximum contact time.
N_a : log_{10} $TCID_{50}$ per mL in the test mixture at the end of the contact time.
CE : The morphological alteration of cells caused by the cytotoxicity effect of the product test solution. 't' denotes the presence of cytotoxicity per cell culture units.
A : log_{10} $TCID_{50}$ per mL in the cell susceptibility control as compared to PBS.
B : log_{10} $TCID_{50}$ per mL in the suppression efficiency control as compared to the virus control.
C : log_{10} $TCID_{50}$ per mL in the reference test for virus inactivation after 30 and 60 minutes (5 and 15 minutes for vaccinia virus).

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Test Report

Test Report No. : CPSA/241044368-CB62023

Efficacy of Hydrocell against *Vaccinia virus,* strain Ankara, ATCC VR-1508 in a quantitative suspension test at 20°C according to EN 14476:2013+A2:2019 (E) under clean condition

Expert Opinion*

This expert opinion is based on the test report CPSA/241044368-CB62023 dated 14th Oct 2024.

The virucidal activity of the disinfectant HYDROCELL of Health West Pty Ltd against *Vaccinia virus*, strain Ankara, ATCC VR-1508 was investigated by a quantitative suspension test according to EN 14476:2013+A2:2019 (E) under clean condition (0.30 g/l bovine albumin solution).

According to this suspension test, a disinfectant or a disinfectant solution at a particular concentration is considered as having virucidal activity if the virus titre is reduced by $\geqslant$4 $\log_{10}$ (inactivation $\geqslant$99.99 %) within the recommended exposure period, or $\geqslant$2 $\log_{10}$ (inactivation $\geqslant$99.00 %) for hygienic handwash only, within the recommended exposure period.

HYDROCELL was examined at 20°C at the concentration(s) of 100.00* % for the exposure time(s) of 5 minutes. After the exposure time(s), the viral reduction exceeded 4 $\log_{10}$-steps in all assays. According to the simple acceptance decision rule†, there is a minimal risk of false acceptance. Therefore, a virucidal activity against *Vaccinia virus*, strain Ankara, ATCC VR-1508 was measured as follows:

Clean condition	100.00** %	5 minutes

After evaluation with the Vaccinia virus ATCC VR-1508, the disinfectant HYDROCELL can be declared as having **'virucidal activity against all enveloped viruses'** in accordance with EN 14476:2013+A2:2019 (E). This declaration encompasses all enveloped viruses listed in Appendix 3, including blood-borne viruses such as HBV, HCV, and HIV, as well as viruses from other families like Orthomyxoviridae (which includes all human influenza viruses), Coronaviridae (such as MERS-CoV, SARSCoV-1, and SARS-CoV-2), and Poxviridae, including the **Monkeypox virus**.

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* Opinions and interpretations expressed here are outside the scope of SAMM (Laboratory Accreditation Scheme of Malaysia) accreditation.

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†The decision rule applied is simple acceptance rule with no guard band and up to 50 % risk of false acceptance or rejection. This rule has been determined by the laboratory and agreed with the client prior to testing.

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Appendix 3

List of viruses from different parts of human body, which may contaminate hands, surgical instruments, surfaces and textiles.

Note: Enveloped viruses are in bold. This list is not exhaustive.

Blood

Enterovirus	**Hepatitis C virus (HCV)**
Filoviridae	**Hepatitis Delta virus (HDV)**
Flavivirus	**Human Immunodeficiency Virus (HIV)**
Herpesviridae	**Human T Cell Leukemia Virus (HTLV)**
Hepatitis A Virus (HAV)	Parvovirus B 19
Hepatitis B virus (HBV)	

Respiratory tract

Adenovirus (Mast-)	**Influenza Virus**
Coronavirus	**Paramyxoviridae**
Enterovirus	Rhinovirus
Herpesviridae	**Rubella Virus**

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Neuronal tissue, ear & nose, eye

Adenovirus (Mast-)	**Human Immunodeficiency Virus (HIV)**
Enterovirus	Polyomavirus
Herpesviridae	**Rabies Virus**
Measles Virus	**Rubella Virus**

Gastro-intestinal

Adenovirus(Mast-)	Enterovirus
Caliciviridae	Hepatitis A Virus (HAV)
Coronavirus	Hepatitis E Virus (HEV)
Astrovirus	Rotavirus

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Skin, breast and/or milk

Enterovirus

Herpesviridae

Human Immunodeficiency Virus (HIV)

Human T Cell Leukemia Virus (HTLV)

Papillomavirus

Poxviridae

Spleen and lymph nodes (see also "Blood")

Human T Cell Leukemia Virus (HTLV)

Human Immunodeficiency Virus (HIV)

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Dental procedure

Adenovirus(Mast-)	**Hepatitis C Virus (HCV)**
Enterovirus	**Hepatitis Delta Virus (HDV)**
Herpesviridae	**Human Immunodeficiency Virus (HIV)**
Hepatitis B virus (HBV)	

Urogenital tract

Hepatitis B Virus (HBV)	**Human T Cell Leukemia Virus (HTLV)**
Herpesviridae	Papillomavirus
Human Immunodeficiency Virus (HIV)	Polyomavirus

Reference:

Van Regenmortel MHV et al.,Eds.: Virus Taxonomy, Classification and Nomenclature of Viruses, seventh report of the international committee on taxonomy of viruses. Academic Press, San Diego, 2000

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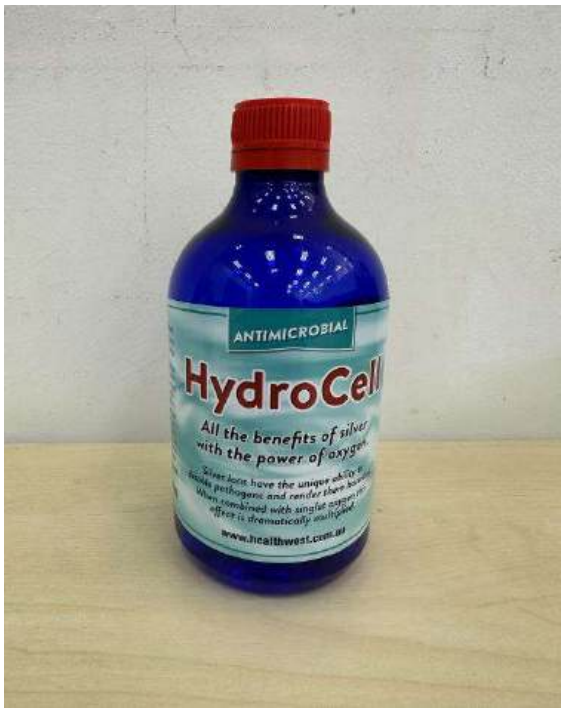
Test Part Description
Sample Description : HYDROCELL

HEALTH WEST PTY LTD CB62023


SGS authenticate the photo on original report only
****End of Test Report****

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