



Roam Technology

Huwa-San TR 50 Efficiency Data

Huwa-San is a solution of hydrogen peroxide which is stabilized using a specially formulated silver based chemistry.



Certified tests

BS EN 1276: Quantitative suspension test for the evaluation of bacterial activity - all applications

Interfering substances for clean and dirty conditions (bovine albumin 0,3 and 0,03g/l)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Pseudomonas aeruginosa	Bovine Albumin	> 5 log	3%	5 min
Staphylococcus aureus	Bovine Albumin	> 5 log	3%	5 min
Escherichia coli	Bovine Albumin	> 5 log	3%	5 min
Enterococcus hirae	Bovine Albumin	> 5 log	3%	5 min
Salmonella typhimurium	Bovine Albumin	> 5 log	3%	5 min
Lactobacillus brevis	Bovine Albumin	> 5 log	3%	5 min
Enterobacter clocae	Bovine Albumin	> 5 log	3%	5 min
Clostridium spp.	Bovine Albumin	> 5 log	3%	5 min

BS EN 1276: Quantitative suspension test for the evaluation of bacterial activity—Food industry

Interfering substances: sucrose (beverage industry and saccharomyces (Breweries—SDS (CIP) - milk for milk industry)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Pseudomonas aeruginosa	Sucrose / sach.	> 5 log	3%	5 min
Staphylococcus aureus	Sucrose / sach.	> 5 log	3%	5 min
Escherichia coli	Sucrose / sach.	> 5 log	3%	5 min
Enterococcus hirae	Sucrose / sach.	> 5 log	3%	5 min
Salmonella typhimurium	Sucrose / sach.	> 5 log	3%	5 min
Lactobacillus brevis	Sucrose / sach.	> 5 log	3%	5 min
Enterobacter clocae	Sucrose / sach.	> 5 log	3%	5 min
Clostridium spp.	Sucrose / sach.	> 5 log	3%	5 min



BS EN 1650: Quantitative suspension test for the evaluation of fungicidal activity—all applications
Interfering substances for clean and dirty conditions (bovine albumin 0,3 and 0,03g/l)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Candida albicans	Bovine albumin	> 4 log	3%	5 min
Aspergillus niger	Bovine albumin	> 4 log	3%	5 min
Saccharomyces cerevisiae	Bovine albumin	> 4 log	3%	5 min

BS EN 1650: Quantitative suspension test for the evaluation of fungicidal activity—Food industry
Interfering substances for clean conditions (bovine albumin 0,3g/l)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Candida albicans	Bovine Albumin, milk, Yeast extracts, sucrose	> 4 log	3%	15 min
Aspergillus niger	Bovine Albumin, milk, Yeast extracts, sucrose	> 4 log	3%	5 min
Saccharomyces cerevisiae	Bovine Albumin, milk, Yeast extracts, sucrose	> 4 log	3%	5 min

EN 13697: Quantitative surface test for evaluation of the bacterial and fungicidal activity—all applications—clean condition

Interfering substances for clean conditions (bovine albumin 0,3g/l)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Pseudomonas aeruginosa	Bovine albumin	> 4 log	3%	5 min
Staphylococcus aureus	Bovine albumin	> 4 log	3%	5 min
Escherichia coli	Bovine albumin	> 4 log	3%	5 min
Enterococcus hirae	Bovine albumin	> 4 log	3%	5 min
Candida albicans	Bovine Albumin	> 3 log	3%	5 min
Aspergillus niger	Bovine Albumin	> 3 log	3%	5 min



EN 13697: Quantitative surface test for evaluation of the bacterial and fungicidal activity— Food industry

Interfering substances: sucrose (beverage industry) and saccharomyces (Breweries) - SDS (CIP) - milk for milk dairy industry

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Pseudomonas aeruginosa	Bovine Albumin, milk, Yeast extracts, sucrose	> 4 log	3%	15 min
Staphylococcus aureus	Bovine Albumin, milk, Yeast extracts, sucrose	> 4 log	3%	15 min
Escherichia coli	Bovine Albumin, milk, Yeast extracts, sucrose	> 4 log	3%	15 min
Enterococcus hirae	Bovine Albumin, milk, Yeast extracts, sucrose	> 4 log	3%	15 min
Candida albicans	Bovine Albumin, milk, Yeast extracts, sucrose	> 3 log	3%	15 min
Aspergillus niger	Bovine Albumin, milk, Yeast extracts, sucrose	> 3 log	3%	15 min

EN 1656: Quantitative suspension test for the evaluation of bacterial activity—Veterinary industry (teat disinfection)

Interfering substances: Bovine albumin 3g/l and Bovine albumin 10g/l + 10g/l Yeast

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Pseudomonas aeruginosa	Bovine Albumin 3 g/l; Bovine albumin 10 g/l + yeast extract	> 5 log	3%	30min
Staphylococcus aureus	Bovine Albumin 3 g/l; Bovine albumin 10 g/l + yeast extract	> 5 log	3%	30min
Enterococcus hirae	Bovine Albumin 3 g/l; Bovine albumin 10 g/l + yeast extract	> 5 log	3%	30min
Proteus vulgaris	Bovine Albumin 3 g/l; Bovine albumin 10 g/l + yeast extract	> 5 log	3%	30min



EN 1656: Quantitative suspension test for the evaluation of bacterial activity—veterinary industry (hoof disinfection)

Interfering substance: Bovine albumin 3g/l and Bovine albumin 10g/l + 10g/l skimmed milk

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Pseudomonas aeruginosa	Bovine Albumin 3 g/l; 10 g/l skimmed milk	> 5 log	4,9%	5min
Escherichia Coli	Bovine Albumin 3 g/l; 10 g/l skimmed milk	> 5 log	4,9%	5min
Streptococcus Uberis	Bovine Albumin 3 g/l; 10 g/l skimmed milk	> 5 log	4,9%	5min

EN 1657: Quantitative suspension test for the evaluation of fungicidal activity—Veterinary industry (teat disinfection)

Interfering substance: Bovine Albumin 3g/l and Bovine Albumin 10g/l + 10g/l Yeast extract

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Candida albicans	Bovine Albumin 3 g/l; Bovine albumin 10 g/l + yeast extract	> 4 log	3%	30min
Aspergillus niger	Bovine Albumin 3 g/l; Bovine albumin 10 g/l + yeast extract	> 4 log	3%	30min

EN 1657: Quantitative suspension test for the evaluation of fungicidal activity—Veterinary industry (hoof disinfection)

Interfering substance: Bovine Albumin 3g/l and Bovine Albumin 10g/l + 10g/l skimmed milk

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Candida albicans	Bovine Albumin 3 g/l; 10 g/l skimmed milk	> 4 log	4,9%	5min
Aspergillus niger	Bovine Albumin 3 g/l; 10 g/l skimmed milk	> 4 log	4,9%	5min



UNIVERSITY OF HEIDELBERG, Germany

EN-DIN norm—Prüfung chemischer Desinfektionsmittel der deutschen Gesellschaft für Hygiene und Mikrobiologie (sept. 2001) - **surface disinfection and hospital disinfection**

Interfering substances for clean and dirty conditions (bovine albumin 0,3 and 0,03g/l)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Staphylococcus aureus	Bovine Albumin	> log 5	10,0%	5 min
Escherichia Coli	Bovine Albumin	> log 5	10,0%	5 min
Proteus mirabilis	Bovine Albumin	> log 5	10,0%	5 min
Pseudomonas Aeruginosa	Bovine Albumin	> log 5	10,0%	5 min
Enterococcus Hirae	Bovine Albumin	> log 5	10,0%	5 min
Candida Albicans	Bovine Albumin	> Log 4	10,0%	5 min
Mycobacterium Terrae	Bovine Albumin	> Log 4	10,0%	5 min

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Staphylococcus aureus	Bovine Albumin	> log 5	5,0%	15 min
Escherichia Coli	Bovine Albumin	> log 5	5,0%	15 min
Proteus mirabilis	Bovine Albumin	> log 5	5,0%	15 min
Pseudomonas Aeruginosa	Bovine Albumin	> log 5	5,0%	15 min
Enterococcus Hirae	Bovine Albumin	> log 5	5,0%	15 min
Candida Albicans	Bovine Albumin	> Log 4	5,0%	15 min
Mycobacterium Terrae	Bovine Albumin	> Log 4	5,0%	15 min

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Staphylococcus aureus	Bovine Albumin	> log 5	2,5%	30 - 60 min
Escherichia Coli	Bovine Albumin	> log 5	2,5%	30 - 60 min
Proteus mirabilis	Bovine Albumin	> log 5	2,5%	30 - 60 min
Pseudomonas Aeruginosa	Bovine Albumin	> log 5	2,5%	30 - 60 min
Enterococcus Hirae	Bovine Albumin	> log 5	2,5%	30 - 60 min
Candida Albicans	Bovine Albumin	> Log 4	2,5%	30 - 60 min
Mycobacterium Terrae	Bovine Albumin	> Log 4	2,5%	30 - 60 min



EN-DIN norm—Prüfung chemischer Desinfektionsmittel der deutschen Gesellschaft für Hygiene und Mikrobiologie (sept. 2001) - surface disinfection for tuberculosis prevention

Interfering substances for clean and dirty conditions (bovine albumin 0,3 and 0,03g/l)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Staphylococcus aureus	Bovine Albumin	> log 5	10,0%	5 min
Escherichia Coli	Bovine Albumin	> log 5	10,0%	5 min
Proteus mirabilis	Bovine Albumin	> log 5	10,0%	5 min
Pseudomonas Aeruginosa	Bovine Albumin	> log 5	10,0%	5 min
Enterococcus Hirae	Bovine Albumin	> log 5	10,0%	5 min
Candida Albicans	Bovine Albumin	> Log 4	10,0%	5 min
Mycobacterium Terrae	Bovine Albumin	> Log 4	10,0%	5 min

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Staphylococcus aureus	Bovine Albumin	> log 5	5,0%	30 min
Escherichia Coli	Bovine Albumin	> log 5	5,0%	30 min
Proteus mirabilis	Bovine Albumin	> log 5	5,0%	30 min
Pseudomonas Aeruginosa	Bovine Albumin	> log 5	5,0%	30 min
Enterococcus Hirae	Bovine Albumin	> log 5	5,0%	30 min
Candida Albicans	Bovine Albumin	> Log 4	5,0%	30 min
Mycobacterium Terrae	Bovine Albumin	> Log 4	5,0%	30 min

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Staphylococcus aureus	Bovine Albumin	> log 5	2,5%	60 min
Escherichia Coli	Bovine Albumin	> log 5	2,5%	60 min
Proteus mirabilis	Bovine Albumin	> log 5	2,5%	60 min
Pseudomonas Aeruginosa	Bovine Albumin	> log 5	2,5%	60 min
Enterococcus Hirae	Bovine Albumin	> log 5	2,5%	60 min
Candida Albicans	Bovine Albumin	> Log 4	2,5%	60 min
Mycobacterium Terrae	Bovine Albumin	> Log 4	2,5%	60 min



UNIVERSITY OF ANTWERP, Belgium

EN 14476: Determination of the virucidal activity of Huwa-San TR 50 (oct. 2005)

Interfering substances: Purified water and Bovine Albumin (0,03%)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Polio I Virus	Purified water and Albumin	complying with criteria of EN 14476	2,0%	60 min
Adenovirus type 5	Purified water and Albumin	complying with criteria of EN 14476	2,0%	60 min

EN-DIN: surface test (oct. 2005) —all application areas

Interfering substances for clean conditions (bovine albumin 0,3g/l)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Staphylococcus aureus	Bovine Albumin	> log 5	2,5%	5 min
		> log 5	1,0%	60 min
Escherichia Coli	Bovine Albumin	> log 5	1,0%	5 min
		> log 5	0,5%	30 min
Proteus mirabilis	Bovine Albumin	> log 5	2,5%	5 min
		> log 5	1,0%	15 min
		> log 5	0,5%	60 min
Pseudomonas Aeruginosa	Bovine Albumin	> log 5	2,5%	5 min
		> log 5	1,0%	15 min
		> log 5	0,5%	30 min
Enterococcus Hirae	Bovine Albumin	> log 5	10,0%	5 min
		> log 5	5,0%	30 min
		> log 5	1,0%	60 min
Candida Albicans	Bovine Albumin	> Log 4	10,0%	5 min
		> Log 4	5,0%	30 min
		> Log 4	2,5%	60 min
Mycobacterium Terrae	Bovine Albumin	> Log 4	20,0%	5 min
		> Log 4	15,0%	15 min

**EN-DIN: surface test (oct.2005) - all applications**

Interfering substances for dirty conditions (bovine albumin 0,3g/l and 0,3% sheep red blood cells)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Staphylococcus aureus	Bovine Albumin	> log 5	5,0%	5 min
			1,0%	60 min
Escherichia Coli	Bovine Albumin	> log 5	2,5%	5 min
			0,5%	15 min
Proteus mirabilis	Bovine Albumin	> log 5	2,5%	5 min
			1,0%	60 min
Pseudomonas Aeruginosa	Bovine Albumin	> log 5	2,5%	5 min
			1,0%	30 min
			0,5%	60 min
Enterococcus Hirae	Bovine Albumin	> log 5	10,0%	5 min
			5,0%	15 min
			2,5%	60 min
Candida Albicans	Bovine Albumin	> Log 4	10,0%	5 min
			5,0%	60 min
Mycobacterium Terrae	Bovine Albumin	> Log 4	20,0%	5 min
		> Log 4	15,0%	60 min

EN 1276 (aug. 2004) - all application areas

Interfering substances: Purified water, hard water and Bovine Albumin (0,03%)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Escherichia Coli	Purified water, hard water and Albumin	> log 5	14,0%	5 min
Enterococcus Hirae	Purified water, hard water and Albumin	> log 5	14,0%	5 min
Pseudomonas Aeruginosa	Purified water, hard water and Albumin	> log 5	14,0%	5 min
Staphylococcus aureus	Purified water, hard water and Albumin	> log 5	14,0%	5 min



EN 13727 (aug 2004) - all application areas

Interfering substances: Purified water and Bovine Albumin (0,03%)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Escherichia Coli	Purified water and Albumin	> log 5	4,0%	60 min
Enterococcus Hirae	Purified water and Albumin	> log 5	4,0%	60 min
Pseudomonas Aeruginosa	Purified water and Albumin	> log 5	4,0%	60 min
Staphylococcus aureus	Purified water and Albumin	> log 5	4,0%	60 min

EN 1650 (aug 2004) - all application areas

Interfering substances: Purified water, hard water and Bovine Albumin (0,03%)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Aspergillus Niger	Purified water, hard water and Albumin	> log 5	10,0%	15 min
Candida Albicans	Purified water, hard water and Albumin	> log 5	10,0%	15 min
Saccharomyces cereveiciae	Purified water, hard water and Albumin	> log 5	10,0%	15 min

EN 13624 (aug 2004) - all application areas

Interfering substances: Purified water and Bovine Albumin (0,03%)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Aspergillus Niger	Purified water and Albumin	> log 5	4,0%	60 min
Candida Albicans	Purified water and Albumin	> log 5	4,0%	60 min



EN 14348 (aug 2004) - all application areas

Interfering substance: Purified water and Bovine Albumin (0,03%)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Mycobacterium Aveum	Purified water, hard water and Albumin	> log 5	15,0%	60 min
Mycobacterium Terrae	Purified water, hard water and Albumin	> log 5	15,0%	60 min

EN 14476 (aug 2004) - all application areas

Interfering substance: Purified water and Bovine Albumin (0,03%)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Polio I virus	purified water containing bovine albumine	complying with criteria of EN 14476	2,0%	60 min
Adenovirus type 1	purified water containing bovine albumine	complying with criteria of EN 14476	2,0%	60 min

EN 1276 (febr. 2004) - all application areas

Interfering substances for purified water, hard water and under clean conditions (Bovine Albumine 0,3mg/l)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Escherichia Coli	Bovine albumin	> log 5	14,0%	5 min
Enterococcus Hirae	Bovine albumin	> log 5	14,0%	5 min
Pseudomonas Aeruginosa	Bovine albumin	> log 5	14,0%	5 min
Staphylococcus aureus	Bovine albumin	> log 5	14,0%	5 min

**BS EN 1650: Quantitative suspension test for the evaluation of fungicidal activity—all applications**

Interfering substance: purified water, hard water and under clean conditions (Bovine Albumine 0,3mg/l)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Aspergillus Niger	Purified water, hard water and Albumin	> log 4	10,0%	15 min
Candida Albicans	Purified water, hard water and Albumin	> log 4	10,0%	15 min

VITO (Flemish institute for technologic research, Belgium)**Evaluation of Huwa-San TR50 for the removal of biofilm (apr. 2004) - Removal of biofilm**

Conditions	H2O2 conc. (%)	RF (%)	effective time
Static conditions	4	98,5	60 min
	4	99,9	16 h
Dynamic conditions	2	98,5	< 60 min
	2	physical removal of biofilm	16 h

Birmingham HIRL (Hospital Infection Research Laboratory, UK)**Tuberculocidal activity (dec 2001) - Medical equipment**

Clean and dirty (1% horse serum) conditions

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Mycobacterium terrae	clean and dirty	> log 5	8,50%	60 min

Sporicidal activity (nov 2001) - Medical equipment

Clean and dirty (1% horse serum) conditions

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Bacillus subtilis var niger	clean and dirty	> log 6	8,50%	60 min

**NF T 72-190 bactericide ad fungicide effectiveness (june 2001)**

Interfering substance: sterile milk

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Staphylococcus aureus	milk	> log 5	0,2%	48 h
Enterococcus faecium	milk	> log 5	1,0%	48 h
Bacillus subtilis	milk	> log 4	0,2%	48 h
Bacillus cereus	milk	> log 3	1,0%	48 h
Candida albicans	milk	> log 4	0,2	5 d

Bezirksverband für Milchleistungs- und Qualitätsprüfungen Stade, e.V.**Bactericidal effectiveness against Salmonella and Listeria - Dairy**

Interfering substance: milk

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Salmonella coleresois	milk	> log 5	4000 ppm	30 min
Listeria Monocytogenes	milk	> log 5	6000 ppm	30 min

LOVAP, Belgium**Bactericidal, fungicidal and sporicidal activity on different surfaces**

Interfering substance: sterile milk—glass surface

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Pseudomonas aeruginosa	milk	> log 5	0,2%	48 h
Escherichia coli	milk	> log 5	0,15%	48 h
Staphylococcus aureus	milk	> log 5	0,15%	48 h
Enterococcus faecium	milk	> log 5	1,00%	48 h
Mycobacterium smegmatis	milk	> log 5	1,00%	48 h
Bacillus subtilis	milk	> log 4	0,20%	48 h
Bacillus cereus	milk	> log 3	1,00%	48 h
Clostridium sporogenes	milk	> log 3	1,00%	48 h
Absidia corymbifera	milk	> log 4	0,20%	5 d
Clasdosporium cladosporioides	milk	> log 4	0,20%	5 d
Candida albicans	milk	> log 4	0,20%	5 d
Penicillium verrucosum	milk	> log 4	1,00%	5 d



Bactericidal, fungicidal and sporicidal activity on different surfaces

Interfering substance: sterile milk -plastic surface

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Pseudomonas aeruginosa	milk	> log 5	0,2%	48 h
Escherichia coli	milk	> log 5	0,15%	48 h
Staphylococcus aureus	milk	> log 5	0,15%	48 h
Enterococcus faecium	milk	> log 5	1,00%	48 h
Mycobacterium smegmatis	milk	> log 5	1,00%	48 h
Bacillus subtilus	milk	> log 3	1,00%	48 h
Bacillus cereus	milk	> log 3	1,00%	48 h
Clostridium sporogenes	milk	> log 3	1,00%	48 h
Absidia corymbifera	milk	> log 4	1,00%	5 d
Clasdosporium cladosporioides	milk	> log 4	0,20%	5 d
Candida albicans	milk	> log 4	0,20%	5 d
Penicillium verrucosum	milk	> log 4	1,00%	5 d

Bactericidal, fungicidal and sporicidal activity on different surfaces

Interfering substance: sterile milk - steel surface

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Pseudomonas aeruginosa	milk	> log 5	0,2%	48 h
Escherichia coli	milk	> log 5	0,20%	48 h
Staphylococcus aureus	milk	> log 5	0,20%	48 h
Enterococcus faecium	milk	> log 5	0,50%	48 h
Mycobacterium smegmatis	milk	> log 5	1,00%	48 h
Bacillus subtilus	milk	> log 5	2,00%	48 h
Bacillus cereus	milk	> log 4	2,00%	48 h
Clostridium sporogenes	milk	> log 3	1,00%	48 h
Absidia corymbifera	milk	> log 5	2,00%	5 d
Clasdosporium cladosporioides	milk	> log 4	0,20%	5 d
Candida albicans	milk	> log 5	2,00%	5 d
Penicillium verrucosum	milk	> log 4	0,50%	5 d

Technical university of Munich, Germany

Biocidal activity against micro-organisms in Breweries

Test organism	interfering subst.	kill rate	H2O2 conc.	effective time
Saccharomyces cerevisiae	beer wort	99,995%	1,00%	3 min (20°C)
Lactobacillus brevis	beer wort	99,995%	0,50%	3 min (20°C)
Pediococcus damnosus	beer wort	99,995%	0,50%	3 min (20°C)

Laboratoire J. Simon, Belgium

NF T 72-201: Biocidal activity against Tricophyton rubrum (fungum)

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Tricophyton rubrum	N/A	complying with standard	7,00%	15 min

Institute für angewandte Tier Hygiene, Germany

DVG Virus: virucidal effectiveness

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Newcastle-disease-virus	calf serum	> log 4	2,00%	2 h
Vaccinia-virus	calf serum	> log 4	2,00%	2 h
ECBO-virus	calf serum	> log 4	2,00%	2 h
REO-virus type I	calf serum	> log 4	2,00%	2 h

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Newcastle-disease-virus	calf serum	> log 4	3,00%	1 h
Vaccinia-virus	calf serum	> log 4	3,00%	1 h
ECBO-virus	calf serum	> log 4	3,00%	1 h
REO-virus type I	calf serum	> log 4	3,00%	1 h



DVG Food: bactericidal and fungicidal effectiveness in drinking water

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Enterococcus faecium	bovine albumin	> log 4	4,00%	30 min
Proteus mirabilis	bovine albumin	> log 4	4,00%	30 min
Candida albicans	bovine albumin	> log 3	3,00%	30 min

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Enterococcus faecium	bovine albumin	> log 4	2,00%	60 min
Proteus mirabilis	bovine albumin	> log 4	2,00%	60 min
Candida albicans	bovine albumin	> log 3	2,00%	60 min

DVG Cattle Breeding: bactericidal and fungicidal effectiveness

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Staphylococcus aureus	bovine albumin	> log 4	4,00%	60 min
Enterococcus faecium	bovine albumin	> log 4	4,00%	60 min
Proteus mirabilis	bovine albumin	> log 4	4,00%	60 min
Pseudomonas aeruginosa	bovine albumin	> log 4	4,00%	60 min
Candida albicans	bovine albumin	> log 3	5,00%	60 min

Laboratoire National des Medicaments veterinaires, France

NF T 2-190: bactericidal effectiveness

Interfering substance: 1% Bovine albumin + 1% yeast extract

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Enterococcus faecium	bovine albumin and yeast extract	> log 5	2,00%	60 min



Roam Technology

EFFICIENCY DATA SHEET

Huwa-San

AFNOR NF T 72-150: bacterial effectiveness

Interfering substance: bovine albumin

Test organism	interfering subst.	pass rate Huwa-San	H2O2 conc.	effective time
Pseudomonas aeruginosa	bovine albumin	> log 5	4,50%	5 min
Escherichia coli	bovine albumin	> log 5	4,50%	5 min
Staphylococcus aureus	bovine albumin	> log 5	6,00%	5 min
Streptococcus faecalis	bovine albumin	> log 5	10,00%	5 min
Mycobacterium smegmatis	bovine albumin	> log 5	15,00%	5 min
Legionella pneumophila	bovine albumin	> log 5	0,40%	5 min