







Employing electrolyzed water production equipment greatly changes daily sanitation management practices. Washing and disinfecting of cooking utensils and sterilization of foodstuffs are vastly simplified-almost like washing without soap.

Electrolyzed water is highly effective against microbes, the main cause of food poisoning, and acts to prevent both primary and secondary contamination.

Paired with an accurate grasp of the routes of contamination, use of electrolyzed water production systems offers an efficient means of providing effective sanitation management.

The critical point in ensuring the prevention of food poisoning is "interrupting the route of contamination between foods."

Primary Contamination

HACCP AT IT'S BEST!

This comprises contamination of foods directly from the natural environment, such as locations where foods are produced.

This is broadly considered as contamination present at the time the food is received.



Secondary Contamination

This type of contamination arises indirectly from utensils and counters used in food processing, food handlers' hands and fingers, and other points of contact.



Shouldn't YOU be taking another look at your approach to sanitation management thus far?





Electrolyzed water actively prevents contamination.

Food Poisoning Food is sterilized with acidic electrolyzed water (sanitizing water).

Prevention of Primary Contamination

Washing

Contaminants are washed away with alkaline electrolyzed water (cleaning water).

Disinfecting

Acidic electrolyzed water (sanitizing water) is effective against nearly all types of food poisoning.

Prevention of Secondary Contamination

Electrolyzed water changes sanitation management.

Increased Safety

Decreases residues while inhibiting retention of chlorine odors.

Improved Workflow

No diluting required. Facilitates smooth operations.

Greater Economy

Only 0.02 Aed per liter. Enables large-scale use.

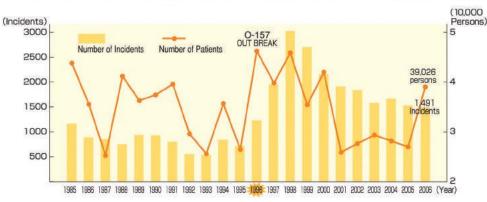
How is Food Poisoning Prevented?

[Bacterial Food Poisoning]

ROXseries

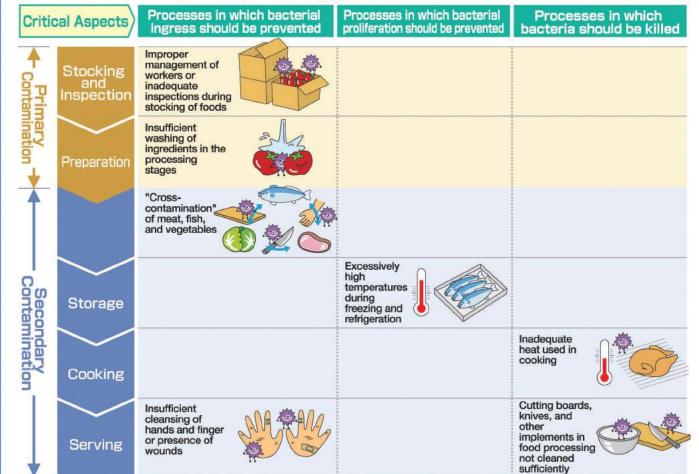
Despite the remarkable improvements in Japan's living environment each year, there has been no downturn in the incidence of food poisoning, which instead harms tens of thousands annually.

Incidence of Food Poisoning by Year
(Figures for incidence of food poisoning from Ministry of Health, Labour and Welfare)

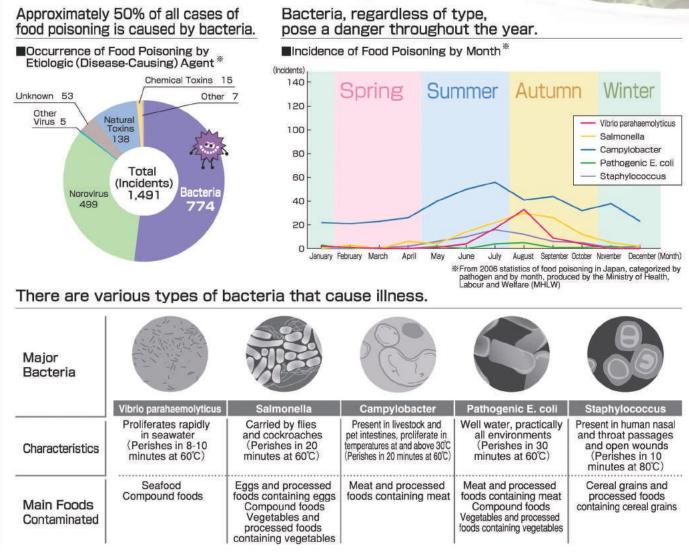


How does bacteria food poisoning occur?

In the course of major food processing operations







This is how to prevent bacterial food poisoning.

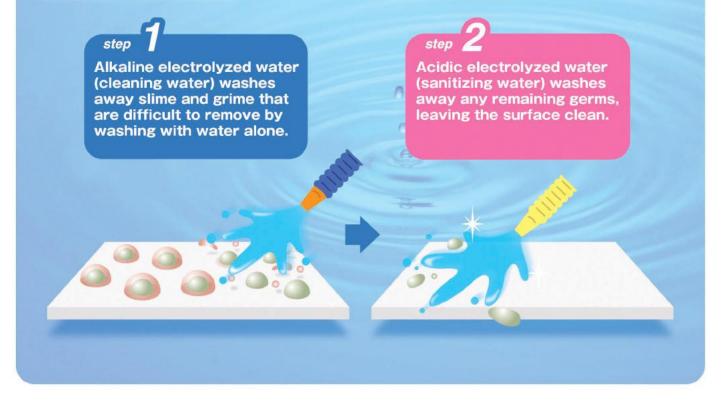
Maintaining these three basic food poisoning prevention principles is critical in preventing primary and secondary contamination.



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What Are the Effects of Electrolyzed Water?

Each of the two types of electrolyzed water generated by ROX Series units has different effects. Using the two types separately according to their respective qualities or in combination produces excellent results in improving efficiency in sterilizing food, washing and disinfecting cooking utensils, and other related tasks.



Effective for Washing

Alkaline Electrolyzed Water (Cleaning Water)

Alkaline electrolyzed water (cleaning water) contains as an active ingredient a small amount of sodium hydroxide (NaOH) capable of dissolving proteins and emulsifying oil and fats. It is also useful for neutralization following disinfecting with acidic electrolyzed water (sanitizing water).

Dissolves and emulsifies proteins, fats, and oils.

Alkaline electrolyzed water (cleaning water) dissolves and emulsifies proteins, fats and oils, and other organic matter difficult to remove with regular water and washes them away.

Comparison of Emulsification of Oil with Alkaline Electrolyzed Water (Cleaning Water) and Tap Water 1 ml of Chinese chili oil was mixed into 10 ml alkaline electrolyzed water (cleaning water) and 10 ml tap water. The oil in the tap water separates, while emulsification of the oil begins immediately in the alkaline electrolyzed water (cleaning water). % The actual state of emulsification may differ than that depicted here. Alkaline Electrolyzed Water Tap Water (Cleaning Water) Oil Separation Emulsification Allows oily contamination Oily Tap contamination to be rinsed cannot be Wate lifted and away. washed away

Effective for Disinfecting Acidic Electrolyzed Water (Sanitizing Water)

The sodium hypochlorite (HCIO) in acidic electrolyzed water (sanitizing water) sterilizes approximately 80 times faster than sodium* hypochlorite solutions of the same concentration.

Exhibits more powerful antimicrobial efficacy than sodium hypochlorite.

While the abundant hypochlorite in acidic electrolyzed water (sanitizing water) from ROX systems contains the same effective chlorine in chlorine ions (CIO-) of which sodium hypochlorite contains large numbers, there is a huge difference in antiseptic efficacy, with the hypochlorite in acidic electrolyzed water (sanitizing water) exhibiting much greater antimicrobial power.

* "Policies for Handling of Sodium Hypochlorite": Japan Water Works Association, 1981 Low residues means greater assurance of safety.

Comparison of Residue for Acidic Electrolyzed Water (Sanitizing Water) and Sodium Hypochlorite (Test performed by Hoshizaki)

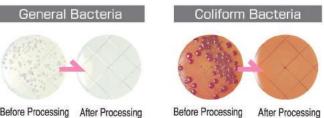
Following sterilization of apple wedges (approximately 600g) with sodium hypochlorite (pH9.3, A.C.C. 200 mg/kg) and acidic electrolyzed water (sanitizing water) (pH2.6,A.C.C.30mg/kg), the apple pieces were washed for approximately 15 seconds in tap water, and the chlorine residue was checked using chlorine test paper (10-50 mg/kg).



Shown to be powerful in preventing secondary contamination

Results of testing by Hoshizaki using agar food stamps

* "Water Purification Technologies": Gihodo Shuppan, 1885



Before Processing After Processing

After Processing

A cutting board surface was washed for approximately 30 seconds with ROX acidic electrolyzed water (sanitizing water). You can see the reduction in colonies of general bacteria and E. coli.

Sterilization Efficacy Test

(Acidic Electrolyzed Water (Sanitizing Water) Sterilization Efficacy Test) [Shimane Industrial Experiment Station])

Tune of Destatio	Initial Bacterial Count	Processing Time			
Type of Bacteria	(organisms/gram)	30 sec.	1 min.	2 min.	5 min.
Escherichia coli	7.1×10 ⁶	<300	<300	<300	<300
Staphylococcus aureus	5.4×10 ⁶	<300	<300	<300	<300
Salmonella enteritidis	3.3×10 ⁶	<300	<300	<300	<300
Pseudomonas aeruginosa	7.0×10 ⁶	<300	<300	<300	<300
Bacillus subtilis	5.3×10 ⁶	<300	<300	<300	<300
Saccharomyces cerevisiae	7.3×10 ⁵	<300	<300	<300	<300
Candida tropicalis	5.3×10 ⁵	<300	<300	<300	<300
Penicillium islandicum	5.8×104	1.7×10 ³	<300	<300	<300

*Values for live organisms in 1 ml.

*Using acidic electrolyzed water (sanitizing water) of pH2.7, ORP 1144 mV, ACC 20 mg/kg, at 26.5°C. The figure "<300" indicates that bacterial growth was not recognized in liquid diluted ten times

Odor-Killing Power Alkaline (Cleaning Water) & Acidic (Sanitizing Water) Electrolyzed Water

Offensive odors are caused by bacterial proliferation and deterioration of proteins, fats and oils, and other substances. Washing with alkaline electrolyzed water (cleaning water) and then disinfecting with acidic electrolyzed water (sanitizing water) is thought to enable suppression of volatile odors by killing odor-causing germs and oxidizing odors' constituents.

Attacking/Solving Odors at the Source







Contamination washed off with alkaline electrolyzed water (cleaning water)



acidic electrolyzed

water (sanitizing water)

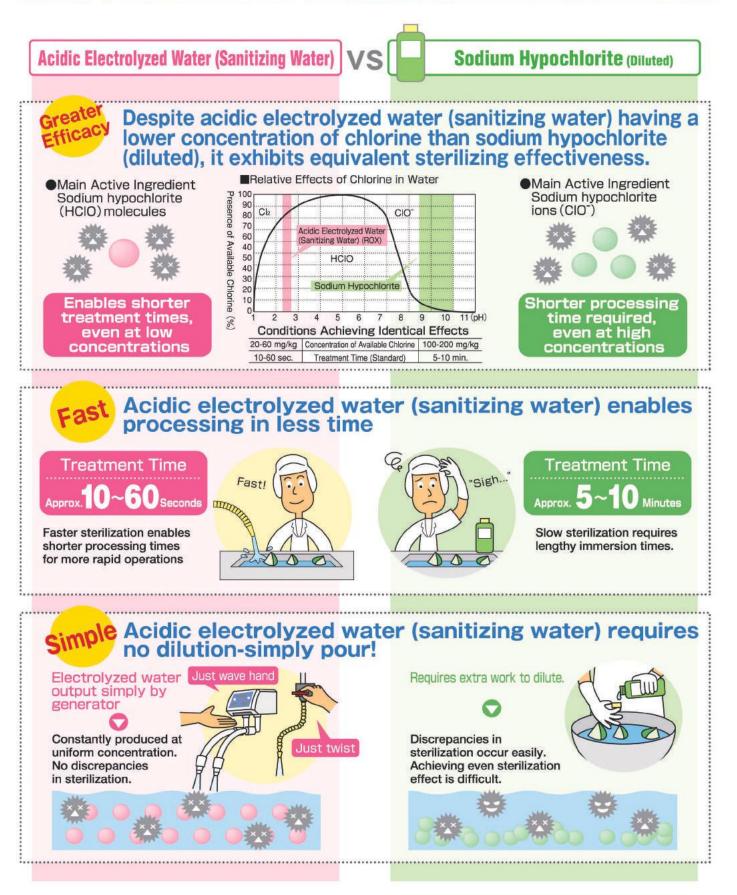


Odors eliminated

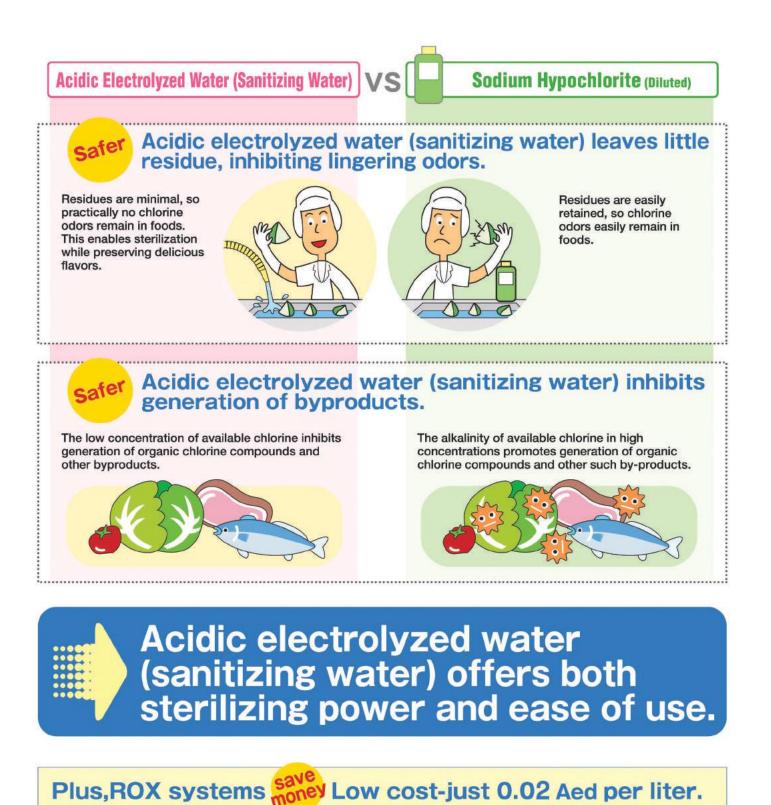
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How do these systems differ from prev

Here is a comparison of the antiseptic efficacy of acidic electrolyzed water (sanitizing water) produced by ROX electrolyzed water production systems and sodium hypochlorite (diluted).



evious Sterlization Methods?



Tap

Water

Salt

The system utilizes only commercially available salt with tap water and electricity, with no need for any proprietary solutions or other special materials. This keeps running costs down, making these systems suitable for high-volume operations.

*Cost based on tap water rates of 366 yen/m3 (Tokyo waterworks rates), salt cost of 490 yen per 5 kg (Salt Industry Center of Japan), and electricity rates (100 V, single phase) of 24 yen/kWh and at 20°C temperature and saline concentration of 0.1%

Electricity

1L=0.02

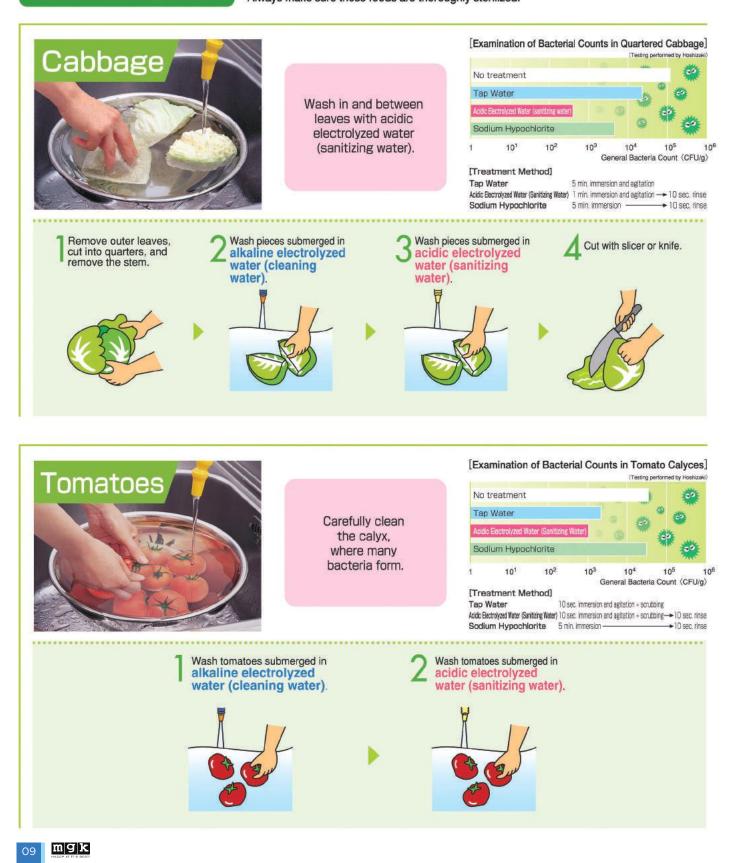
Food Hygiene Using Acidic Electrolyzed Water (Sanitizing Water)

Measures Against Primary Contamination

Sterilizing Vegetables

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Raw vegetables used in salads, peeled fruit, and other raw food require special care as they are not cooked with any heat. Always make sure these foods are thoroughly sterilized.



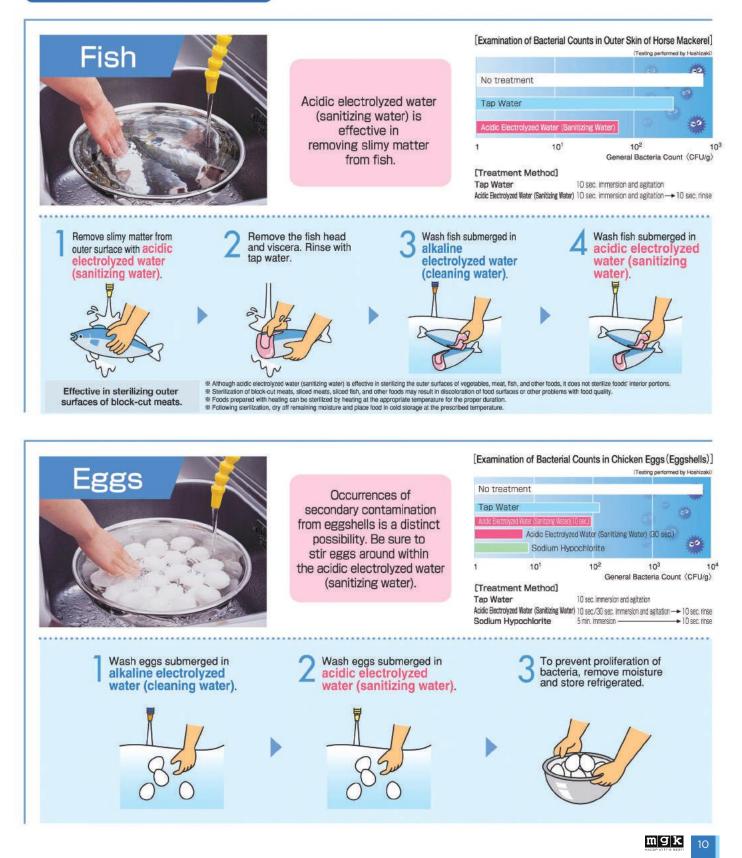
Note Regarding Food Sterilization Examination

Based on the premise that sufficient application of heat with predetermined methods in food preparation inhibits incidents of food poisoning, tests were conducted concerning core temperatures of foods consumed or offered uncooked. Targeted solutions examined in the test are shown at the right.

Examined Solution	pH (°C)	Available Chlorine Concentration (mg/kg)
Tap Water	7.0~7.5(10~12)	0.2~0.4
Acidic Electrolyzed Water (sanitizing water)	2.5~2.7 (10~12)	20~30
Sodium Hypochlorite Solution	9.5~10.2(10~15)	190~210

Sterilization of Fish and Eggs

Washing procedures for fish and meat vary according to the state in which the foods are received. Therefore, comprehensive measures including thorough testing along heating, washing, and other methods of sterilization are required to prevent food poisoning.



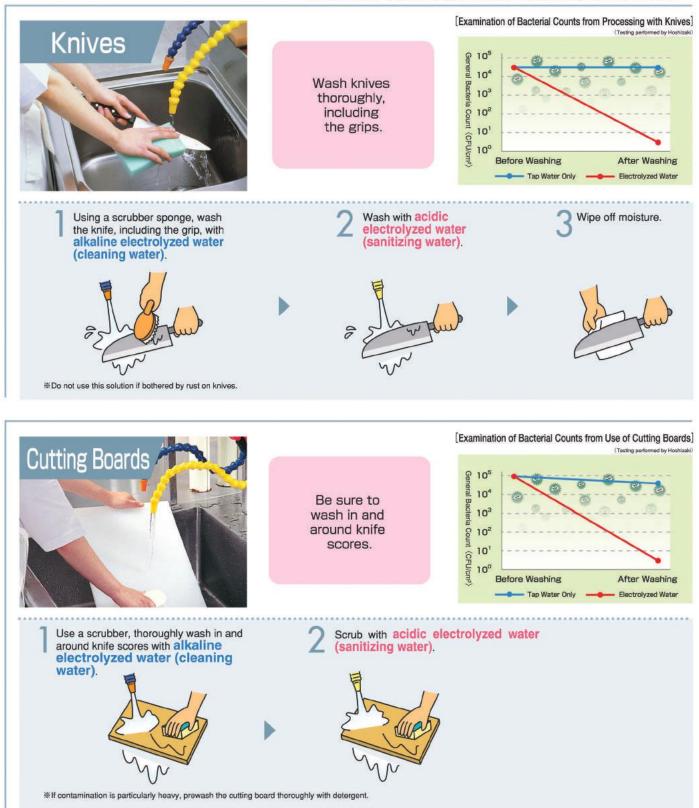
Washing and disinfecting with Alkaline (cleaning water

Measures Against Secondary Contamination

Washing and Sterilizing Utensils

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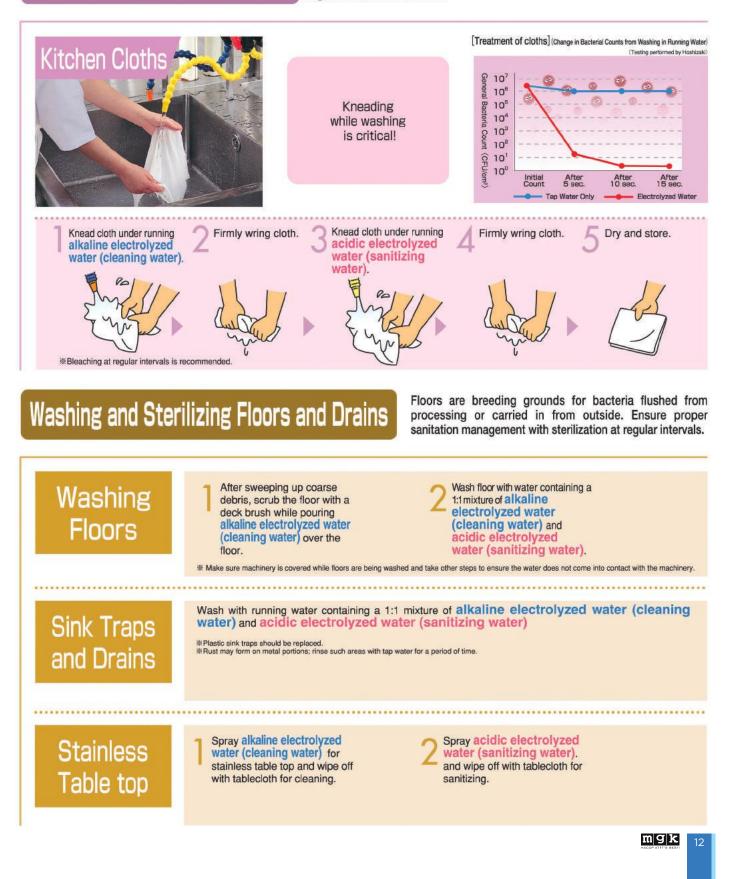
Cooking utensils may become contaminated in preparation and cooking with bacteria from ingredients or food preparers, resulting in recontamination of the processed foods. Preventing such "secondary contamination" requires diligence in sterilization during these procedures.



ter) and Acidic (sanitizing water) Electrolyzed Water

Washing and Sterilizing cloths

Kitchen cloths and other cloths used to wipe a wide variety of matter may harbor large numbers of bacteria. Sanitary practices should always be maintained with regular sterilization of cloths.



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Compact unit requires little space for pipes, fits under sinks.



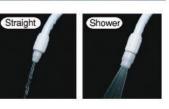
Sanitary touchless operation-emit water just by holding up your hand to the sensor.

The unit features a built-in contactless sensor. Just hold your hand up to the sensor; the sensor detects your hand and automatically emits electrolyzed water. The system is very sanitary, as it outputs water without hand contact.



Equipped with Easy-to-Use Flex Nozzles.

These units feature flexible pouring nozzles that can be bent to any desired angle. The nozzle also can be switched to emit water in a shower flow.



Emit Continuously or at Predetermined Times.

The system features two output modes, a normal mode that provides a continuous stream only when and in the amount needed, and one that allows users to set a timer and have the stream start and automatically shut off at preset times. This is a convenient feature for tasks such as filling sinks with electrolyzed water.

Indicator and Control Panels Are Easy to Read and Use.



Adjust Flow Rate Easily with a Single Switch.

The flow rate can be adjusted just by pressing the control panel's flow adjustment switch. Select from "Low," "Standard," and "High" flow rates.

*Output capacity may not increase if supply water pressure is insufficient.

Alkaline Electrolyzed Water (Cleaning Water)	Acidic Electrolyzed Water (Sanitizing Water)
Approx.	Approx.
3.0L/min	3.0 L/min

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Direct Output Water Softener Reducing Valve Water Supply Water Supply Reducing Valve Filter Reducing Valve Filter Reducing Valve Reducing Reducing Reducing Valve Reducing Reducing

Cleaning Water

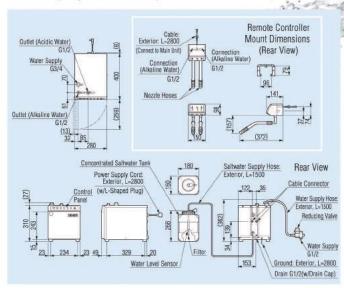
Piping Diagrams

ROX-20TB

Pov	wer Supply	Single-phase 100 V, 50/60 Hz, 0.99 kVA (9.89 A)
Pov	wer Consumption	170/170 W
Standard Reformance	Electrolyzed Water Output	Acidic electrolyzed water (sanitizing water), alkaline electrolyzed water (cleaning water): approx. 2.0 L/min
	Available Chilorine Concentration	Acidic electrolyzed water (sanifizing water): 20-60 mg/kg
	Electrolyzed Water pH	Acidic electrolyzed water (sanitizing water): approx. 2.7 or under; alkaline electrolyzed water (cleaning water): approx. 11.3 or above (with Toyoake City water)
	Electrolyzed Water Output	Acidic electrolyzed water (sanitizing water), alkaline electrolyzed water (cleaning water): approx. 15–3.0 L/min (however; minimum supply water pressure of 0.15 MPa required for generation at 2.0-3.0 L/min)
E	Available Chlorine Concentration	At production rate of approx. 3 L/min: ACC for acidic electrolyzed water (sanitizing water): 10 mg/kg or above
Pelerence Performance	Electrolyzed Water pH	Acidic electrolyzed water (sanitizing water): approx. 2.9-3.3; alkaline electrolyzed water (cleaning water): approx. 10.5-11.0 or above (Note) May vary according to quality of water source and water temperature.
Exterior Dimensions		W: 280 mm x D: 400 mm x H: 310 mm
Co	nnections	Supply: G3/4 (reducing valve G1/2); outlet G1/2; drain G1/2
We	ight	Approx. 22 kg (28 kg packaged)
Wa	ter Supply	Must conform to waterworks standards, with water softener and filter required
Usa Rar	age Temperature 1ge	Ambient temperature range: 5-35 ⁷ C; water temperature: 5-30 ⁹ C; relative humidity: 85% max. (condensation not permissible)
Inst	tallation Siting	Must meet interior specifications, with ventilation required
Allo	wable Voltage Range	±10% of rated voltage
Salt		Table salt (sodium chloride) from Salt Industry Center of Japan (min.purity 99%)
Accessories		Concentrated saltwater tank (5 L), caps (2), connector hose set, nozzle hoses (2), output hose, hose clamp, pH tester (TB, AZY), chlorine tester, beaker, gasket, reducing valve (0.15MPa) operation instruction sheet, remote controller, braided hose, bracket/remote, union/elbow, rubber syringe, shower nozzle, straight nozzle, O-ring, elbow fitting

<Important Notes>

1. Grounding is mandatory. 2. Environment must be free of dust, with good ventilation. 3. Piping outside equipment must be insulated, condensation is not permissible. 4. Pipe resistance in piping outside equipment must be uniform. 5. Rated values indicated are measured values based on technical standards for electric devices, with 30°C ambient temperature, water temperature of 25°C, water supplied by Toyoake City. 6. Notes regarding installation requirements: Ensure system is used property in accordance with conditions regarding placement, water supply and drainage, power supply, and other stipulations in the operation manual and installation manual. As actual space for installation may differ slightly, allow approximately 10 mm additional space in dimensions (space for ventilation and pairing is in addition to the space required for installation of the unit).



"I believe that MGK ROX Water is the future of chemical free cleaning and sani-tizing for the 21th century."

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Remote Controller

lan Hopper, Immediate past President FCSI, Worldwide



ROXseries

Compact unit can be mounted on walls above sinks and in other tight spaces



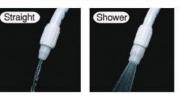
Sanitary touchless operation - emit water just by holding up your hand to the sensor.

The unit features a built-in contactless sensor. Just hold your hand up to the sensor; the sensor detects your hand and automatically emits electrolyzed water. The system is very sanitary, as it outputs water without hand contact.



Equipped with Easy-to-Use Flex Nozzles.

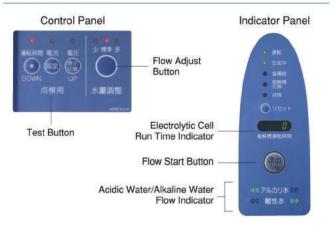
These units feature flexible pouring nozzles that can be bent to any desired angle. The nozzle also can be switched to emit water in a shower flow.



Emit Continuously or at Predetermined Times.

The system features two output modes, a normal mode that provides a continuous stream only when and in the amount needed, and one that allows users to set a timer and have the stream start and automatically shut off at preset times. This is a convenient feature for tasks such as filling sinks with electrolyzed water.

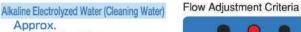
Indicator and Control Panels Are Easy to Read and Use.



Adjust Flow Rate Easily with a Single Button.

The flow rate can be adjusted just by pressing the control panel's flow adjustment switch. Select from "Low," "Standard," and "High" flow rates.

*Output capacity may not increase if supply water pressure is insufficient.







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ROX-10WB

Po	wer Supply	Single-phase 100 V, 50/60 Hz, 0.5 kVA (5.0 A)	
Po	wer Consumption	150/150 W	
StandardPerformance	Electrolyzed Water Output	Acidic electrolyzed water (sanitizing water), alkaline electrolyzed water (cleaning water): approx. 1.0 L/min	
	Available Chlorine Concentration	Acidic electrolyzed water (sanitzing water): 20-60 mg/kg	
	Electrolyzed Water pH	Acidic electrolyzed water (sanitizing water): approx. 2.7 or under; Alkaline electrolyzed water (cleaning water): approx. 11.3 or above (with Toyoake City water	
	Electrolyzed Water Output	Acidic electrolyzed water (sanitizing water); alkaline electrolyzed water (cleaning water): approx. 0.7-15 L/min (however, minimum supply water pressure of 0.15 MPa required for generation at 1.0-1.5 L/min)	
Reference Performance	Available Chlorine Concentration	At production rate of approx. 1.5 L/min: ACC for acidic electrolyzed water (sanitizing water): 10 mg/kg or above	
leferenc	Electrolyzed Water pH	Acidic electrolyzed water (sanitizing water): approx. 2.9-3.3; alkaline electrolyzed water (cleaning water): approx. 10.5-11.0 or above (Note) May vary according to quality of water source and water temperature.	
Ext	terior Dimensions	W: 350 mm x D: 174 mm x H: 340 mm	
Co	onnections	Supply: G3/4 (reducing valve G1/2); outlet G1/2	
W	eight	Approx, 13 kg (16 kg packaged)	
W	ater Supply	Must conform to waterworks standards, with water softener and filter required	
Usa	ge Temperature Range	Ambient temperature range: 5-35 °C; water temperature: 5-30 °C; relative humidity: 85% max. (condensation not permissible)	
In	stallation Siting	Must meet interior specifications, with ventilation required	
Allowable Voltage Range Salt		210% of rated voltage Table salt (sodium chloride) from Salt Industry Center of Japan (min.purity 99%)	
Accessories		Concentrated salt tank (5 L), cap, hose/water supply, nozzle hoses (2), pH tester (TB, AZY), chlorine tester, beaker, gasket, reducing valve (0.15MPa) operation instruction sheet, screw collar anchor plug, wood screw, rubber syringe, shower nozzle, straight nozzle, O-ring, elbow fitting AV	

Important Notes>

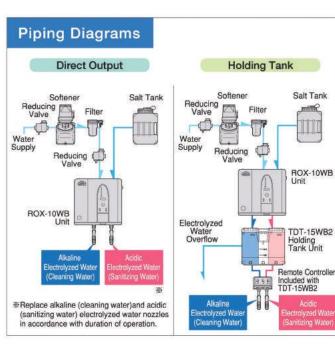
1. Grounding is mandatory. 2. Environment must be free of dust, with good ventilation. 3. Piping outside equipment must be insulated, condensation is not permissible. 4. Pipe resistance in piping outside equipment must be uniform. 5. Rated values indicated are measured values based on technical standards for electric devices, with 30°C ambient temperature, water temperature of 25°C, water supplied by Toycake City. 6. Optional Hoshizaki TDT-15WB2 Holding Tank Unit is available if 3-5 L/min performance is desired. 7. Notes regarding installation requirements. Ensure system is used properly in accordance with conditions regarding placement, water supply and drainage, power supply, and other stiputations in the operation manual and installation manual. As actual space for installation may differ stightly, allow approximately 10mm additional space in dimensions (space for ventilation and piping is in addition to the space required for installation of the unit).

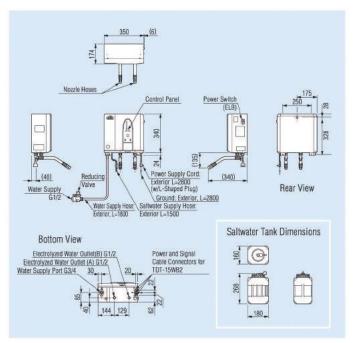
TDT-15WB2 Holding Tank Unit for ROX-10WB (Optional)

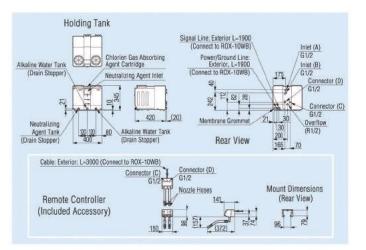
Power Supply	Single-phase 100 V, 50/60 Hz, 0.23 kVA (2.3 A)
Power Consumption	22/23 W
Output	Acidic electrolyzed water (sanitizing water): approx. 3/5 L/min (1 m head, 50/60 Hz); Aalkaline electrolyzed water (cleaning water): approx. 3/5 L/min (1 m head, 50/60 Hz)
Tank Capacity	Acidic electrolyzed water (sanifizing water): approx. 12 L (effective tank capacity approx. 10.6 L); Alkaline electrolyzed water (cleaning water): approx. 12 L (effective tank capacity approx. 10.6 L)
Exterior Dimensions	W: 400 mm x D: 420 mm x H: 345 mm
Acidic Water Neutralizer	Neutralization of acidic water overflow with neutralizing agent (max. capacity approx. 2 kg)
Chlorine Gas Treatment	Chlorine gas treatment with chlorine gas absorbing agent
Weight	Approx. 19 kg (approx. 23 kg packaged)
Usage Conditions	Ambient temperature range 5-35°C, within ±10% of rated voltage

<Important Notes>

1. Grounding is mandatory. 2. Used only when connected to ROX-10WB electrolyzed water production system. Due to the possibility of back flows due to siphoning, be sure that the TDT-15WB2 is set up lower than the ROX-10WB. 3. The neutralizing agent is a consumable-replenish regularly. Use only genuine Hoshizaki neutralizer, and maintain level above the MIN line. 4. Chlorine gas absorbing agent must be repleced annually or after every 360 hours of operation. 5. Notes regarding installation requirements: Ensure system is used properly in accordance with conditions regarding placement water supply and drainage, power supply, and other stipulations in the operation manual and installation manualizes for installation may differ slightly, allow approximately 10 mm additional space in dimensions (space for ventilation to the space required for Installation of the unit).







What type of Electrolyzed Water does each system produce?

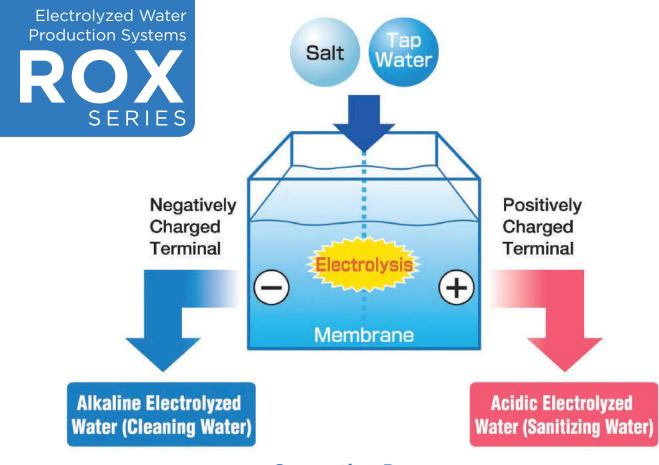
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Electrolyzed water from ROX Series Systems is created from salt water through electrolysis using a membran, improving the efficiency of sanitation management in food processing environments, including food hygiene and washing and disinfecting of cooking utensils.

Created by non-membrane electrolysis of salt water, electrolyzed water from JIX Series systems exhibits an effect equivalent to that of sodium hypochlorite, providing a simple means of improving food hygiene.

Electrolyzed water is created in HOX Series units through electrolysis of plain water, with no addition of salt, bringing out foods' deleicious flavors and offering tremendous utility in food processing.

All these "electrolyzed water" varieties are special types of water that are extremely useful in kitchens.



Generation Process

These systems produce alkaline electrolyzed water (cleaning water) effective for washing and acidic electrolyzed water (sanitizing water), which is effective as a disinfectant.

As the figure fro the top shows, membrane electrolysis of salt water with a concentration of 0.2% or lower results in the generation of alkaline electrolyzed water (cleaning water) at the cathode (negatively charged terminal), and acidic electrolyzed water (sanitizing water) at the anode (positively charged terminal). ROX systems utlize this priciple to produce alkaline electrolyzed water (cleaning water), which is of great utility in washing contaminated items and acidic electrolyzed water (sanitizing water), which is effective for disinfecting and food sanitizing



ROX System: In Summary

ROX is the ultimate green solution from MGK.

R: Reduction - Alkaline water OX: Oxidation - Acidic water

ROX generates Alkaline water and Acidic water from only tap water and salt. Both ROX water by MGK can be used in food santitation.

To prevent food poisoning

If you will use ROX water, it is easy to disinfect utensils, equipment and ingredients diligently, because ROX water is safe. It is effective on most bacteria and viruses.

For Example...



Deodorant of rubbish

Disinfection of seafood



Hand washing

Washing and disinfection of utensils





Disinfection of Vegetables



Customer's voice

What do our customers say?

ROXseries

" I Can confirm that switching to Rox Water from MGK has being yery beneficial for our operation at Zuma Dubai. Especially the sanitation of Fish, Meat, Vegetables and our Coldrooms as added a high value of Quality and longer shelf life to our valuable Products. We sanitize all our kitchen utensils as well as washing the floors to ensure the entire kitchen operation exeed the level of Hygiene versus conventional cleaning chemicals."

A.Refaie Othman Executive Chef Zuma, DIFC Dubai

" I started with MGK's ROX in 2012 and since then sanitizing all our produce from Vegetable to meat, poultry, or even fish with the ROX Water. The Lab results are by far exceeding our expectations and we have adapt MGK's ROX as Brand Standard for all our future upcoming Restaurants!"

Luca Signoretti Executive Chef Roberto's, DIFC Dubai

"At Vida Downtown Dubai we are continuously aiming to achieve the highest levels in environmentallyfriendly solutions for our hotel. We want to express our thanks to MGK for their support and effort in implementing the ROX Electrolyzing Water System. We are more than satisfied with the use of ROX machine for cleaning and sanitizing the food, as well as the kitchen equipments."

Daniel Kingston - Hotel Manager Vida Hotels and Resorts

Comparison with other disinfectants

Sodium hypochlorite 'bleach'

- It can't be used during cooking because of the strong residue. (The smell and slimy feeling remains.)
- Undiluted solution almost doesn't have disinfection power. It takes time to dilute.)
- The processing time is long.
- When it touches clothes, it makes decolorization.

Ethanol

- It is expensive.
- When surface is wet it doesn't have disinfection power.
- It is damaging to skin.

ROX water

- It can be used easily during cooking because it has no residue.
- Running cost is cheap and it can be used like a tap water.
- Disinfection time is fast it needs just 15 sec.
- It is safe to human body and environment.

19 **mgk**























































Proven Results by Independent Accredited Laboratories



ROXseries

National Inspection & Technical Testing Company.

(FAHSS)

Dubai Branch – P O Box 79123, Dubai, United Arab Emirates Tel : 04 2585671 Fax : 04 2585674



Microbiological Analysis Report

Attention	: Mr. Micro Beutler
Client name	: MGK Electromechanical
Address	: P.O. Box 71130, Dubai, UAE.
Tel	: 04 3200924
Fax	: 04 3201545
Contract No.	: LAB-DXB-PRO-002-REV02-FEB15 -2012

Sample Preservation	Refrigeration Temperature	Analyzed By	KN
Sampling Conditions	Ambient	Reporting Date	19/02/2012
Sampling Location	Grand Hyatt Kitchen	Analysis Dates	16/12/2012-18/12/2012
Sampling Source	Blue Knife	Sample Received Date/Time	16/02/2012 / 02.00PM
Sampled By	FAHSS	Sampling Date/Time	16/02/2012 /12.00AM
Sampled In	Sterile Swab	Report No	FAHSS/FML/R- 1318
Sample Type	Surface Swab	Job No.	JO/0225/M-12

Sample Description	Sample Number
Butchery Kitchen Knife ,Blue(Washed & sanitized With ROX EO Water) (Test-Washing With 5% Sodium Hydroxide Solution Produced By Rox 20TB-E machine (Alkaline Water) At 32.5°C For 30Sec. And pH 10.3 Rinsed with 5%Hydrochoride Acid(Produce by Rox 20TB-E Machine (Acid Water) For 15sec At 31.2°C& pH 3.11Both Chemical are produce by Rox 20 TB –E Machine)	1318

S No.	Parameter	Test Method	Unit	Result	*Limits
01	Total Plate Count	CCFRA 1.1.1:2007	CFU/cm ²	<10	100/ cm ²
02	Total Coliforms	CCFRA 2.2.1:2007	CFU/cm ²	ND	* ND
03	Staphylococcus aureus	CCFRA 3.5.1:2007	CFU/cm ²	ND	^ ND

D- Detected ND - Not Detected NA - Not Analyzed RTF - Results To Follow TNTC - Too Numerous To Count N/A-Not Applicable
Test Method Variation : None
Sampling Method: LAB-PRO-002
*EIC of India Sep 2007, Issue 2 ^ Internal Limits.

*Client-Details of sample collection and transportation which may affect the accuracy of the results were not provided by the client.
Comments: The sanitation of the above food contact surface was satisfactory
The results stated in this report refer only to the sample(s) tested unless otherwise satisfactory
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permission of the company.

D-1

For FAHSS ANJU MATHEW **Technical In-charge**

An ISO 9001:2008 certified company

The results stated in this report refer only to the sample(s) tested unless otherwise stated. The test report cannot be reproduced, except in full, without prior written permission of the company.

FAHSS/FML/FRM/024, Rev. 02 Issue No.: 01, Issued by: QI, 04.05.2011

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Proven Results by DAC Accredited Laboratory







NAL 006 17025

TEST REPORT HILTON DUBAI JUMEIRAH **MICROBIOLOGICAL ANALYSIS**

Client Representative:	Mr. Alexis Suyat	No: of samples	4
Address:	P.O.Box 2431	Sampled by	SGS Representative
	Dubai,UAE	Sample Info:	Please refer table below
Tel:	04 3182177	Receiving Date:	24/03/2013
Fax:	04 3182263	Sample receipt	Ambient
		temperature	
Email:	-	Test dates	24/03/2013 - 31/03/2013
Job No:	40004560	Tested by	SN/AN
Invoice No:	1014004379	Reporting Date	01/04/2013
Client reference No:, if any	March Samples	No. of pages:	1 of 4

No.	Client Ref No.	Sample Name	Other Info	Sample No.	
1	Store	Unsanitized Orange, (Temp: Ambient)	P:24/03/13 E:25/03/13	4967	

Parameters	Units	Method Used	Result of 4967	Microbiological Limit
E. coli	MPN/g	US FDA BAM, Sep 2002	<3.0	<10 ²
Staphylococcus aureus	Per g	US FDA BAM, Jan 2001	<10	<10 ²
Salmonella	In 25g	US FDA BAM, Dec 2007	ND	0
Bacillus cereus	CFU/g	US FDA BAM, Jan 2001	<10	<10 ²

Test Method Variation :	None
Uncertainty:	Will be reported on client request
Sampling	If sampling is done by SGS, SGS SOP, FL-SOP-TECH-019 Rev.2 is applicable and
plan/procedure:	is available for client reference on request
Commente	As per the tests conducted and listed above, Microbiological status of the above
A Star Contraction	product is satisfactory.
RTF Results to Follow P= Pre	esent/Positive, ND =Not Detected, NA =Not Analysed, N/A =Not Applicable, CC= Crowded Colonies, CFU-
Colory Forming Units, WIE+V	oo numerous to count ,EAPC=Estimated aerobic plate count NSW:New southwales food authority
13 (SGS 8 8	
Signed for and on bear	If of
SUS Gulf Limited	(Dame
S S S S S S S S S S S S S S S S S S S	CTS Laboratory Manager
	oro Euboratory manager

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 $({f in})$ Mirco Beutler

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