



SANI MARC  TM

Hands-on Hygiene TM

Recommended products reference guide for organic production



As a leader in its field, Sani Marc continuously evolves to propose the best to its clients. Therefore, an organic offer that complies to Canadian Government standard CAN/CGSB-32.310.2020 is proposed and enhanced year after year.

Compliant products are classified in two categories:

Category 7.3

Food-grade cleaners, disinfectants and/or sanitizers listed in Table 7.3 of CAN/CGSB-32.311 may be used on organic product contact surfaces, which include equipment, storage and transport units; and/or in direct contact with organic products without subsequent removal event.

Category 7.4

If substances in Table 7.3 are ineffective, cleaners, disinfectants and/or sanitizers listed in Table 7.4 of CAN/CGSB-32.311 may be used on organic product contact surfaces, provided that documentation demonstrates they are used as annotated; and removal event(s) have eliminated the substance(s) from organic product contact surfaces prior to organic production.

All Sani Marc recommended products, their classifications and suggested validation procedure are presented in the upcoming tables.

Canadian General Standards Board has also provided a special closure for the cleaning, disinfecting and sanitizing phase of organic production in the event that no products accepted in categories 7.3 and 7.4 of the standard are effective. This closure is explained in section 8.2.3 of CAN/CGSB-32.310 and goes as follows:

Category 8.2.3

“If substances in Table 7.3 or 7.4 are ineffective, other cleaners, disinfectants and/or sanitizers may be used on organic product contact surfaces, provided that documentation demonstrates:

a) The effectiveness of the alternative substance(s).

It must be demonstrated that none of the products accepted in section 7.3 or 7.4 of CAN/CGSB .32-310-2020 is effective and that the alternative substance(s) has (have) technical effect(s) through an ATP (bioluminescence) measurement, for example.

b) There is a complete elimination of the alternative substance(s) before each cycle of organic production.

The alternative substance must be rinsed and/or wiped off. Tests must then prove the absence of the alternative substance. You may refer to the tables of suggested validation procedures at the end of the list of products authorized for organic production for on-site testing. CAUTION: Microbiological tests must be performed in the laboratory.

c) Effluent discharges are neutralized in order to minimize their negative impact on the environment.

The effluent for the cleaning/sanitizing phase must be neutralized either by the customer himself or by the city's wastewater treatment plant if there is an agreement.

PRE-SELECTION TABLE ACCORDING THE TYPE OF APPLICATION

Family 05 Degreasers	Type of application		
	Gel ^a	Foaming ^a	Non-Foaming (CIP)
Alcalin Chloré	Casogel, Chloragel, Forcegel, Viscogel	Blizzard, Meteor, Storm, Super-Blizz, WW Grizzly	Chlorextra SP, Germachlor, Germachlor Ultra, Membra-Chlor 300
Alcalin Non-Chloré	Ecogel ACS, Power Gel, TFF Gel, Versagel ^M , WW Excel	2014-3, Chlorosol (S) Econergy, Hurrican DG ^M , Power Foam, Power Foam Ultra, Rebel (S)	B.W.C (S), Caustek 50, Caustek Free ^M , Caustek Ultra, Caustek V, Extrem, Maximum, Membra-Base 200, Membra-Base 210, Membra-Base 220, Polyclean, Rebel (S)
Enzymatic	-	Bio-Force	Ciner-Add, Ciner Z
With solvent	-	AM-717, Challenge, Energie, Rapidex	Citra-Kleen, Limokleen

Family 07 Acids	Type of application		
	Gel ^a	Foaming ^a	Non-Foaming (CIP)
	AO ² Gel, Gelac ^d	Boomerang ^d , Eliminator ^{d or L} , Phosfoam ^d , Wave	Activator ^{d or L} , Alubrite ^d , Citric Acid ^{b,c} , Detac 2D ^L , Detac N, Enviro-Acid ^b , Enviro-Acid Red, Intense ^d , Lactic Acid ^c , Membra-Cid 600, Membra-Cid 610, Opti-Acid ^d , Ovation ^d , Phosphoric Acid ^L

^a: For external applications

^b: Can be used for stainless steel equipment passivation

^M: For soft metals

(S): Solide form, granules or powder

^c : Can also be used as sanitizers

(CIP) : Cleaning in place

^d : Until maximal concentration ONLY

^L : For use in Dairy ONLY

Family 09 Sanitizers	Type of application		
	Gel / Foaming ^a	Non-Foaming (CIP)	RTU or Wipes
Oxydative Action	Biodestroy, Gelox	Agro-Chlor (S), Biotizer, Chinook, Chinook 110, Chinook 220, Chinook 330, Chinook 440, Chinook Concentrated, Chloréco, Iodor, Oxygerm, WW V2G Saber (concentrated)	WW Saber wipes
Metabolic Action	Avalanche, D-4055, Eco Quat, Formule 19, Germarc, Hi-Sept, MaxQuat 400, Power Quat, Quatal. WW Colinon, WW V2G Désinfectant	Aniocide, Carbo-Blast (S), Surfan ^{L or d} ,	Alco H&S, Alco Spray, Alco Wipes FC, Iso Alcool 70%, WW Ultra Wipes

Family 11 Detergents	Type of application	
	Dilutable	Non-Dilutable
	A.P.C, Cristal, Mirage, Proplac, WW instant, WW Sani 442, WW V2G Beam, WW V2G Oxy, WW V2G Sunrise	Sani-Clean

Family 13 Hand Soaps & Sanitizers	Type of application	
	Soap	Alcohol-based sanitizer
	Activ, Sani-Lotion, WW Vert-2-Go Hand Soap	WW Vert-2-Go X-Pure Gel, WW X-Pure Liquid Hand Sanitizer

Family 20 Specialties	Type of application				
	Cleaning Additives	Membranes	Odor Control	Lubricants	Others

	Defoam, Dry Control, Scale Control, Scale Free, Sequestal, Shake, Wash Antifoam	Membra-DD 400, Membra-DD 410, Membra-DD 420, Membra-Store 710	Siphon, WW Vert-2- Go Bio Bio-San	Ecolub, WW Prime	Biodetect, Bio- Marc, Oxyboost
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DETAILED TABLES FOR PRODUCT SELECTION

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
05 Degreasers	2014-3	Multi-Purpose Alkaline Foaming Degreaser	05-10095	7.4	None	A, F, G
	AM-717	All-Purpose Stain Removing Degreaser	05-10000	7.4	Maximum concentration: 80%	A, F, G
	Bio-force	Biotechnological Foaming Cleaner	05-10002	7.4	Maximum concentration: 5%	-
	Blizzard	Foaming Chlorinated Alkaline Degreaser	05-10005	7.4	None	A, F, G
	B.W.C	Granulated caustic Cleaner	05-10125	7.4	Maximum concentration: 11%	A, F, G
	Casogel	Chlorinated Alkaline Gel Degreaser	05-10105	7.4	None	A, F, G
	Caustek 50	50% Caustic Liquid	05-10023	7.3	None	A, F, G, M
	Caustek Free	Non-foaming Degreaser	05-10215	7.4	Maximum concentration: 7.5%	A, F, G, M
	Caustek Ultra	Strong Alkaline Non-foaming Cleaner	05-10029	7.4	Maximum concentration: 11%	A, F, G, M

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
05 Degreasers	Caustek V	Additive Reinforced Liquid Caustic	05-10028	7.4	None	A, F, G, M
	Challenge	High Performance Industrial Degreaser	05-10020	7.4	Maximum concentration: 11%	A, F, G
	Chloragel	Chlorinated Gel Degreaser	05-10015	7.4	None	A, F, G
	Chlorextra SP	Non-Foaming Chlorinated Alkaline Cleaner	05-10018	7.4	None	A, F, G, M
	Chlorosol	Halogenated Alkaline Cleaning-Sanitizing Powder	05-10280	7.4	Maximum concentration: 3.5%	A, F, G
	Ciner-Add	Enzymatic Cleaning Additive	05-10026	7.4	To use with Ciner-Z	A,F, G
	Ciner-Z	Non-Foaming Enzymatic Cleaner	05-10027	7.4	Maximum concentration: 7%	-
	Citra-Kleen	Natural Solvent Based Cleaner-Degreaser	05-10430	7.4	None	A, F, G
	Ecogel ACS	Gel Detergent Degreaser	05-10036	7.4	Maximum concentration: 7%	A, F, G

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
05 Degreasers	Econergy	Liquid Multi-Purpose Foaming Alkaline Cleaner	05-10175	7.4	Maximum concentration: 86%	A, F, G, M
	Energie	Foaming Degreaser For All Surface	05-10040	7.4	Maximum concentration: 60%	A, F, G
	Extrem	High Performance Alkaline Liquid Cleaner	89-10355	7.4	None	A, F, G, M
	Forcegel	High Performance Chlorinated Alkaline Gel Degreaser	05-10640	7.4	None	A, F, G, M
	Germachlor	Non-foaming Chlorinated Alkaline Degreaser	05-10200	7.4	Maximum concentration: 23%	A, F, G, M
	Germachlor Ultra	High-Performance Non-Foaming Degreaser	05-10205	7.4	None	A, F, G, M
	Hurrican DG	Multi-Purpose Heavy Duty Degreaser	05-10080	7.4	Maximum concentration: 10%	A, F, G
	Limokleen	Natural Solvent Based Degreaser	05-10070	7.4	Maximum concentration: 10%	A, F, G

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
	Maximum	Low-Foaming Alkaline Liquid Cleaner	89-10080	7.4	None	A, F, G, M

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
05 Degreasers	Meteor	Powerful Chlorinate Alkaline Degreaser	05-10007	7.4	None	A, F, G
	Membra-Base 200	Powerful Alkaline Cleaner for Membranes	05-10510	7.4	For membrane cleaning	A, F, G
	Membra-Base 210	Alkaline Degreaser for Membrane	05-10515	7.4	For membrane cleaning. Maximum concentration: 12.5%	A, F, G, M
	Membras-Base 220	Alkaline Degreaser For Membranes	05-10517	7.4	For membrane cleaning. Maximum concentration: 8%	A, F, G, M
	Membra-Chlor 300	High-Performance Chlorinated Degreaser	05-10300	7.4	For membrane cleaning	A, F, G
	Polyclean	Alkaline Wetting And Sequestering Additive	89-10085	7.4	Maximum concentration: 5%	A, F, G, M

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
	Power Foam	High Performance Foaming Degreaser	05-10345	7.4	None	A, F, G
	Power Foam Ultra	High Performance Foaming Degreaser	89-10350	7.4	None	A, F, G
	Powergel	Super Strong Gel Degreaser	05-10035	7.4	None	A, F, G

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
05 Degreasers	Rapidex	Industrial Strength Cleaner Degreaser	05-10071	7.4	None	A, F, G
	Rebel	Granulated Alkaline Degreaser	05-10320	7.4	Maximum concentration: 5%	A, F, G
	Storm	Foaming Chlorinated Alkaline Degreaser	05-10505	7.4	None	A, F, G
	Super-Blizz	High Performance Foam Degreaser	05-10355	7.4	None	A, F, G
	TFF Gel	Heavy-Duty for Trans-Fat Free and Other	05-10100	7.4	None	A, F, G

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
	Versagel	Gel Degreaser For Soft Metals	05-10285	7.4	Maximum concentration: 8.5%	A, F, G
	Viscogel	Chlorinated Gel Degreaser	05-10250	7.4	None	A, F, G
	WW Excel	Gel Degreaser for Heating Plates Grills	05-12490	7.4	None	A, F, G
	WW Grizzly	Multi-Surface Phosphate-Free Degreasing Formula	05-12009	7.4	None	A, F, G

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
07 Acids	AO ² Gel	Powerful Gel Acid Cleaner	07-10105	7.4	None	B, G
	Alubrite	Strong Renovating Acid	07-1005	7.4	Maximum concentration: 5%	B, G
	Boomerang	Shining Acid For Metal Surfaces	07-10110	7.4	Maximum concentration: 8%	B, G
	Citric acid 50%	Eliminated Mineral Deposits	07-10003	7.3	None	B, G

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
	Detac 2D	Acid Descaler	07-40045	7.4	Maximum concentration: 2.5%	B, G, M
	Detac N	CIP Non- foaming Acid	07-10047	7.4	Maximum concentration: 3%	B, G, M
	Eliminator	Acid Degreasing Cleaner	07-10043	7.4	Maximum concentration: 2.5%	B, G
	Enviro-Acid	Non-foaming Phosphorus-free Acid Cleaner	89-10030	7.4	Maximum concentration: 2%	B, G, M
	Enviro-Acid Red	Non-foaming Phosphorus-free Acid Cleaner	07-10033	7.4	Maximum concentration: 2%	B, G, M

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
07 Acids	Gelac	Extra Strong Acid Gel	07-10053	7.4	Maximum concentration: 5%	B, G
	Intense	Non-foaming Acidic Cleaner For Tanks	07-10145	7.4	Recommended for the brewing industry Maximum concentration: 2%	B, G

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
	Lactic Acid 88%	Antimicrobial Agent for Red Meat Carcasses	89-10625	7.3	Supported by 6.3	B, G
	Membra-Cid 600	Non-foaming Acid Cleaner for Membranes	07-10155	7.4	Maximum concentration: 3%	B, G, M
	Membra-Cid 610	Non-foaming Acid Cleaner for Membranes	07-10610	7.4	Maximum concentration: 2%	B, G, M
	Opti-Acid	Non-foaming Phosphorus-free Acid Cleaner	07-10025	7.4	Maximum concentration: 5%	B, G, M
	Ovation	Heavy Duty Phosphorus-Free Non-Foaming Cleaner	07-10180	7.4	Maximum concentration: 9%	B, G, M
	Phosfoam	Foaming Concentrated Phosphoric Acid	89-10025	7.4	Maximum concentration: 1%	B, G
	Wave	Powerful Foaming Phosphorous-Free Acid	07-10175	7.4	None	B, G

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
09 Sanitizers	Agro-Chlore	Granulated 65% Chlorine Sanitizer	89-10200	7.3 ⁴ & 7.4	Granules	C, I
	Alco H&S	No Rinse Hand & Surface Cleaner and Sanitizer	09-10006	7.4	Lactic acid is supported by 6.3	B, G
	Alco Spray	Fast Evaporating Cleaner and Sanitizer	09-10005	7.4	None	B, G
	Alco Wipes FC	Fast Evaporating Sanitizing Wipes	09-10013	7.4	Lactic acid is supported by 6.3	B, G
	Aniocide	Acid Sanitizer For C.I.P	09-10012	7.4	Maximum concentration: 3%	B, G, M
	Avalanche	Foaming Foot Bath Sanitizer	09-10011	7.4	None	K, L
	BioDestroy	Foaming Biofilm Disinfectant	09-10215	7.4	None	D, H
	Biotizer	Biofilm Disinfectant	09-10255	7.4	None	
	Carbo-Blast	Granulated Floor Sanitizer	09-10137	7.4	Granules	H, K, L

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
09 Sanitizers	Chinook & Chinook 110-220-330-440	Sanitizer For Food Process	89-10013	7.3	None	D, H
	Chinook Concentrated	Sanitizer For Food Process	09-10025	7.4	None	D, H
	Chloreco	12% Chlorine Sanitizer	89-10015	7.3 ⁴ & 7.4	No rinse at 5 ppm or less	C, I
	D-4055	Powerful Cleaner, Degreaser and Disinfectant	09-10030	7.4	None	K, L
	Eco Quat	Quat Sanitizer	09-10085	7.4	None	K, L
	Formule 19	Germicidal General Purpose Liquid Detergent	09-10040	7.4	Maximum concentration: 20%	A, K, L
	Gelox	Highly Concentrated Chlorine Gel Sanitizer	09-10300	7.4	None	C, I
	Germarc	Disinfectant Formulated With 10% Quat	09-10070	7.4	None	K, L
	Hi-Sept	Ultra-Concentrated Liquid Detergent	09-10130	7.4	Maximum concentration: 12.5%	K,L

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
09 Sanitizers	Iodor	Iodine Based Sanitizer	09-10075	7.4	Maximum concentration: 5%	B, G
	Iso Alcool 70%	No-Rinse Alcohol-Based Sanitizer	09-10076	7.3	None	-
	MaxQuat 400	Quaternary Ammonium based sanitizer	09-10550	7.4	None	K, L
	Oxygerm	Peracetic Acid-Based Non-Foaming General Sanitizer	89-10115	7.3	None	D, H
	Power Quat	Disinfectant, Deodorizer, Virucide	09-10073	7.4	None	K, L
	Quatal	High Efficiency Glutaraldehyde	09-10095	7.4	None	K,L
	Quat-Blast	Sanitizing Powder For Floor Treatment	09-10135	7.4	None	-
	Surfan	Anionic Type Acid Sanitizer	09-10105	7.4	Maximum concentration: 5%	B, G
	WW Colinon	Quaternary Ammonium Disinfectant Cleaner	09-12020	7.4	None	K, L

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
09 Sanitizers	WW Vert-2-Go Saber (concentrated)	Cleaner, Disinfectant, Sanitizer, Bactericide	09-12400	7.4	None	B,G
	WW Saber Wipes	Powerful Disinfectant, Cleaner	09-12411	7.4	None	
	WW Ultra Wipes	Disinfecting and Cleaning Surface Wipes	09-12595	7.4	No hazardous ingredient based on WHMIS	-
	WW Vert-2-Go Disinfectant	Sanitizer – Fungicide - Doedorizer	09-12330	7.4	None	K, L

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
11 Detergents	A.P.C.	All Purpose Spraying Detergent	11-10280	7.4	None	A,G
	Cristal	Liquid Detergent for Hand Dishwashing	11-10000	7.4	No hazardous ingredient based on WHMIS	-
	Mirage	Specialized Power To Clean Eggs	89-10225	7.4	Maximum concentration: 6%	
	Proplac	Oven, Grill and Cooking Surface Cleaner	11-10180	7.4	None	A, G
	Sani-Clean	Cream Sanitizing Cleaner	89-34509	7.4	No hazardous ingredient based on WHMIS	-
	WW Instant	Chlorinated Dishwashing Machine Detergent	89-12365	7.4	None	A, G
	WW Sani 442	Multi Surface Spray Cleaner	11-12220	7.4	None	A, G
	WW Vert-2-Go Beam	Liquid Dishwashing and Degreaser Detergent	11-12650	7.4	None	-
	WW Vert-2-Go Oxy	Low-Foam Neutral Cleaner	11-12630	7.4	None	-

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
11 Detergents	WW Vert-2-Go Sunrise	Biodegradable Dishwashing Detergent	11-12010	7.4	None	-
	WW Vitrex +	Multi-surface Cleaner for daily use	11-12375	7.4	None	-

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
13 Hand Soaps and Sanitizers	Activ	Antimicrobial Hand Soap	13-10001	7.4	Mint Perfume	-
	Sani-Lotion	Antimicrobial Body Lotion	13-10135	7.4	No Perfume	-
	WW Vert-2-Go X-Pure Gel	Antimicrobial Hand Gel	09-12460	7.3 & 7.4	None	-
	WW X-Pure Liquid Hand Sanitizer	Antimicrobial Hand Moisturizing Liquid Spray	09-12455	7.4	None	-
	WW Vert-2-Go Hand Soap	Balanced pH, Fragrance and Dye-free	13-12360	7.4	None	-

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
20 Specialties	Anti-mousse de lavage (Wash Antifoam)	Foam Eliminator	89-10008	7.4	Forbid for biological egg washing only	-
	BioDetect	Surface Biofilm Detector	09-10110	7.4	None	B, G, H
	Bio-Marc	For Drain Lines and Grease Traps	20-10003	7.4	None	
	Defoam	Wetting and Defoaming Additive	89-10160	7.4	For bottle Washing	-
	Dry Control	Dispersant Add. Compatible With Oxidizing Agents	20-10180	7.4	Maximum concentration: 9%	A, F, G
	Ecolub	Sanitizing Lubricant For Chains And Conveyors	20-10023	7.4	Maximum concentration: 12%	A, F, G
	Membra-DD 400	Non-Ionic Surfactant Cleaner	20-10400	7.4	Membrane Line	-
	Membra-DD 410	Additive For Membrane Cleaners	20-10410	7.4	Membrane Line	-

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
20 Specialties	Membra-DD 420	Additive For Membrane Cleaners	20-10420	7.4	Membrane Line	-
	Membra-Stor 710	Liquid Soaking Agent For Membrane	20-10710	7.4	For Short Period Storage	-
	Oxy-Boost	Hydrogen Peroxide 35%	89-10170	7.3	None	B, G
	Scale Control	Dispersant Additive	20-10385	7.4	None	A, F, G
	Scale Free	Concentrated Sequestering Agent	89-10285	7.4	Maximum concentration: 2%	-
	Sequestal	Sequestering Additive and Conditioner	89-10065	7.4	None	A, F, G
	Shake	Foam Additive	89-10370	7.4	None	A, G
	Siphon	Deodorizing Treatment for Drain and Grease Trap	20-10140	7.4	None	K, L

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
20 Specialties	Track Lube	Conveyor Lubricant and Cleaner	20-10210	7.4	Maximum concentration: 8.5%	-
	WW Prime	Lubricant and Corrosion Inhibitor	20-12225	7.4	None	-
	WW Vert-2-Go Bio Bio San	Biological Odour Neutralizer	20-12205	7.4	No hazardous ingredient based on WHMIS	-

Family	Product Name	Description	Product Code	Canadian Standard ¹ Reference	Comments	Suggested Validation Procedures
For Dairy Only	Activator	Activator for EcoSan	07-10004	7.4	Accepted in organic production ONLY on dairy equipment	B, G
	Detac 2D	Acid Descaler	07-40045	7.4	Accepted in organic production ONLY on dairy equipment	B, G, M
	Eliminator	Acid Degreasing Cleaner	07-10043	7.4	Accepted in organic production ONLY on dairy equipment	B, G
	Phosphoric Acid	-	07-10000	7.4	Accepted in organic production ONLY on dairy equipment	B, G
	Surfan	Anionic Type Acid Sanitizer	09-10105	7.4	Accepted in organic production ONLY on dairy equipment	B, G

1. Canadian General Standards Board. CAN/CGSB-32.311-2015 amended 2018 Organic Production Systems. Permitted Substances List
2. Canadian General Standards Board. CAN/CGSB-32.310-2015 amended 2018 Organic Production Systems. General Principles and Management Standards.
3. No restriction for surfaces without any direct contact with food.

4. Chlorinated compound must not exceed maximum level for safe drinking water

Suggested Validation Procedures

Tool Type	Verification Tool	Procedure	Use	Condition(s)
Strips	PH Strip Roll (91-010)	A	To verify the absence of alkaline residue.	The pH of the surface should be less than 8.
		B	To verify the absence of acid residue.	The pH of the surface should be greater than 6.
	Chlorine Indicator Strip (49-6023)	C	To verify the concentration of chlorine on treated surfaces.	The maximum chlorine concentration on surfaces must be less than 5 ppm.
	Peracetic acid test strip (49-3000)	D	To verify the concentration of peracetic acid on treated surfaces.	The maximum peracetic acid concentration on surfaces must be less than 250 ppm.
	Oxystix CLO2 test strip (56-10066)	E	To verify the concentration of chlorine dioxide on treated surfaces.	Must be below the legal limit for the specific application.
	Strips 91-QT10 Quat QT-10 (0 – 400 ppm) or Strips 91-QT40 (0 – 500 ppm) or Strips 91-QC1001 (0 – 1000 ppm)	L	To verify the presence of quaternary in a solution or on a surface.	Shall not be detected.
Indicators	Indicator Solution R #61 (90-R61-50)	F	To verify the absence of alkaline residue on surfaces.	The absence of pink colour indicates adequate rinsing.
Instrumentation	pH Meter	G	To verify the absence of alkaline or acidic residue in rinse water.	The pH of rinse water should be equal to that of tap water +/- 0.2.
	Conductivity Meter	M	To verify the absence of mineral/conductive elements	Conductivity must be similar to these of tap water at factory

Suggested Validation Procedures

Tool Type	Verification Tool	Procedure	Use	Condition(s)
Test Kits	Lamotte Peracetic Acid/Hydrogen Peroxide Test Kit (49-7191-01)	H	To verify that the concentration of PAA and/or peroxide is less than the permitted value.	Peracetic acid concentration on surfaces must be less than 250 ppm.
	Chlorine Test Kit 0-5 ppm (49-K1515C)	I	To verify that the concentration of chlorine is less than the permitted value.	Chlorine concentration must be less than 5 ppm.
	Chlorine Dioxide Test Kit (56-10063)	J	To verify the concentration of free and total chlorine.	Do not exceed the maximum concentration allowed for drinking water.
	Taylor K-1582 Test Kit (QAT) (49-K1582)	K	To verify the concentration of quaternary in a solution.	Must be less than 10 ppm.