

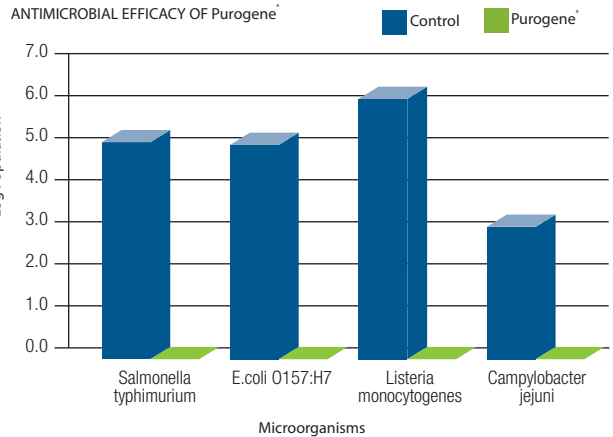
Purogene®

The Ultimate Antimicrobial Product for Airline Water Storage and Tank Disinfection

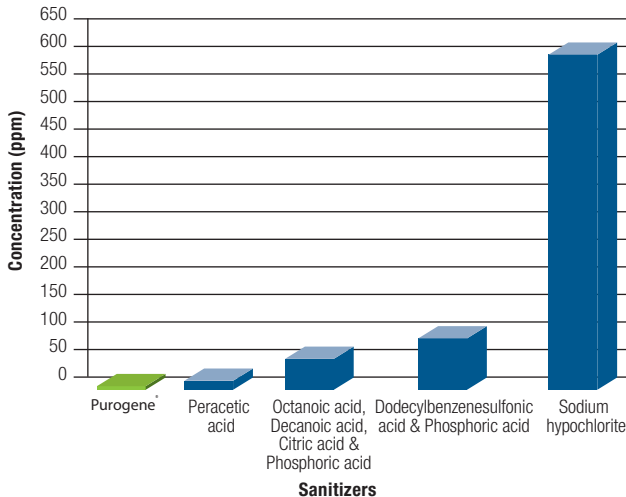


Purogene® is the most effective, fast acting, broad-spectrum antimicrobial available.

Purogene® is a highly refined blend of oxychloro species containing purified sodium chlorite. When activated, chlorine dioxide is produced, greatly enhancing Purogene®'s antimicrobial activity. Purogene® displays broad spectrum antimicrobial activity, proven effective against *E. Coli O157:H7*, *Salmonella*, *Listeria*, *Staphylococcus*, *Aspergillus*, and *Pseudomonas*, *Legionella* among others. This product is especially suited for the removal and subsequent control of biofilm.



CONCENTRATION OF SANITIZERS REQUIRED for >5 log reduction of E.coli O157:H7 in 60 seconds



Purogene® has been shown to be more effective than other common sanitizers including quaternary ammonia, Iodophors, Peracetic acid and sodium hypochlorite (chlorine). Purogene® provides a comprehensive antimicrobial intervention program. Purogene® has major advantages in providing long term residual antimicrobial effect over Ozone and Peroxide based products that are short-lived in systems with organic load.

Distributed by:



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BENEFITS

- Ultra high, broad spectrum antimicrobial activity
- Uniquely effective against biofilm
- Effective over a broad pH range (1-10)
- Low corrosion potential at use concentrations
- Does not chlorinate (no THM formation)
- Long lasting bacteriostatic activity
- No effect on organoleptic properties
- Economical to use
- Extends the life of on-board water heating and coffee making equipment
- Maintains lavatory systems free of sludge and organic build-up
- Can be used with automated delivery systems
- Approved for use by most major airframe manufacturers

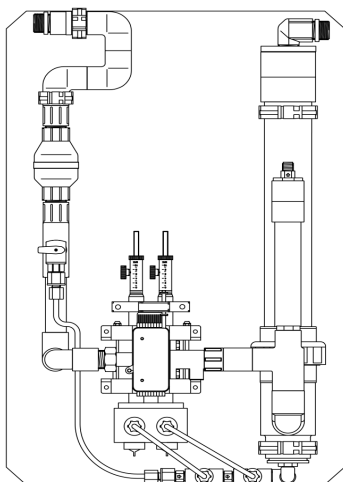
DIRECTIONS

WATER TANK DISINFECTION

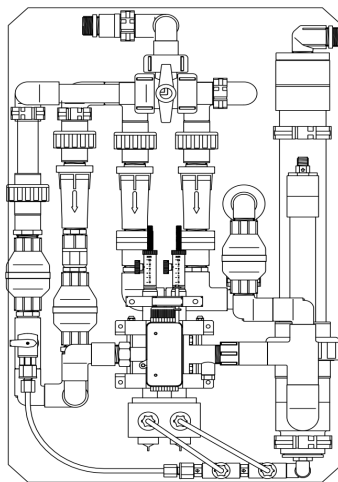
- 1) Drain water storage tank.
 - 2) Inspect tank for foreign materials and sediment.
 - 3) Clean out and flush tank with clean potable water.
 - 4) For each 50 gallons of disinfection solution, mix the following:
 - 16 fluid ounces of Purogene®
 - 2 ounces of citric acid
 - mix and allow 5 minutes for activation to occur
 - Dilute activated concentrate with two gallons of clean potable water.
 - 5) Fill aircraft water tank
 - 6) Open all water discharge ports for a short time to allow the treatment solution to reach and flow through these ports.
 - 7) Close ports and allow treatment solution to stand for one hour.
 - 8) Drain solution from tank. **DO NOT FLUSH TANK.**
 - 9) Refill tank with potable water treated with 5ppm Purogene®.
- This procedure can be automated using BCI's delivery systems (see below)

These systems provide hands-free activation and dosing of Purogene®. Three configurations of the PASS System are available:

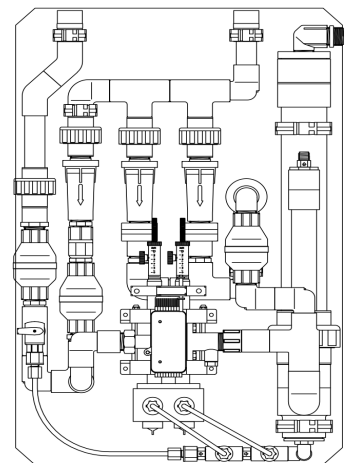
1. Potable Water Treatment - This unit combines Purogene® and activator at the appropriate ratio for potable water treatment (5 ppm)
2. Water Tank Disinfection - This unit combines Purogene® and activator at the appropriate ratio for water tank disinfection (50 - 100ppm)



Standard Concentration



**Dual Concentration
with internal valve**



**Dual Concentration
with external valve**

CALCULATION CHART

Packaging	Purogene	Citric Acid	Volume Treated	ClO ₂ ppm
1 Quart	32oz	4 oz	50 Gallons	100 ppm
1 Gallon	128 oz	16 oz	200 Gallons	100 ppm
12 Quart Case	3 Gallons	48 oz	600 Gallons	100 ppm
4 Gallon Case	4 Gallons	64 oz	800 Gallons	100 ppm
5 Gallon Pail	5 Gallons	80 oz	1000 Gallons	100 ppm

PRODUCT SPECIFICATIONS

- Concentration: 2.0 - 2.10% available chlorine dioxide
- Appearance: Colorless liquid
- pH Concentrate: of 8.2 - 8.5
- Boiling point: 213° F (100.5°C)
- Melting point: n/a
- Freezing point: 28.9° F (-1.72°C)
- Vapor Pressure: 23.7 mm Hg (25°C)
- Vapor Density: 0.02 kg/m³
- Specific Gravity: 1.03 g/ml (20°C)
- Volatiles (by volume): 97% water
- Solubility in water: Complete
- Evaporation rate: Comparable to water
- Very low acute toxicity (EPA Cat III)
- Non-Flammable • Non-Explosive • Stable Solution
- NFPA Rating: Fire: 0 Health: 1 Reactivity: 1 Special: None

PASS

**Purogene®
Airline Sanitization System**