



Safe Disinfection for
Food Produce



Aquatabs 8.68g
Disinfection for
Animal Drinking Water
& Postharvest Processing



Clean water is essential for healthy animal growth. **Water contamination** leads to **disease** and **reduced productivity**. Animals that consume good quality water are **healthier**, grow **faster** while **reducing antibiotic** intervention. Carcasses undergone surface disinfection not only improves **food safety**, but extends **shelf life** by preventing blown pack spoilage.

What are Aquatabs

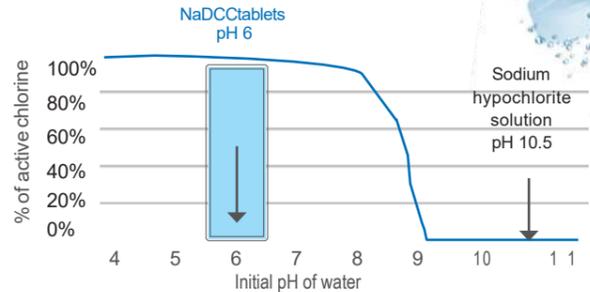
Aquatabs are **NaDCC** effervescent tablets used to disinfect contaminated water by killing microorganisms to prevent cholera, typhoid, dysentery and other water borne disease.

Aquatabs Benefits

Aquatabs are **simple** to prepare, use and are **easy to store** & transport. A single dose tablet that gives **exact dosage**, every time.

Optimized pH

In solution, **NaDCC** generates optimum pH level (~6). The level of active chlorine available at neutral pH is **superior** to that of sodium hypochlorite (alkaline pH)



The slightly acidic solution prevents the formation of biofilm when used continuously at low concentrations.

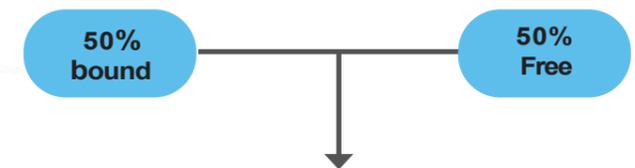
Aquatabs Active ingredient NaDCC

The biocidal capacity of NaDCC is far superior to other chlorine disinfectants for 2 reasons:

- It produces a hypochlorous acid solution with an optimum pH level (~6) which is more biocidal than alkaline hypochlorite solutions

Undissociated HOCL is x100 stronger than the dissociated form (hypochlorite)

- 50% of the total chlorine content is freely available, the remainder is combined and released when required. This equilibrium gives improved efficiency and safety in use when compared to other chlorine agents.



Aquatabs active ingredient NaDCC is approved to international standards with **NSF/ANSI Standard 60** certification. Aquatabs are manufactured to full **GMP pharmaceutical standards**.

BIOACTIVITY - BACTERICIDAL, FUNGICIDAL, VIRUCIDAL AND SPORICIDAL

EXAMPLES OF BIOACTIVITY

Bacteria	<i>Salmonella spp, Staphylococcus aureus, Streptococcus spp, Yersinia spp, Pseudomonas aeruginosa</i>
Mycobacteria	<i>Mycobacterium spp, Mycoplasma spp.</i>
Yeast/Moulds	<i>Candida albicans, Aspergillus spp</i>
Viruses	Marek's disease, Avian influenza, Newcastle disease, African swine fever, Parvovirus
Spores	<i>Bacillus stearothermophilus, Bacillus cereus, Clostridium perfringens, Clostridium tetani</i>

Stock Solutions for Dosing Pumps

When making a stock solution for a dosing pump system, always add tablets to the solution container, then add water. Use the following table as a guide for the stock solutions

No. of Tablets	Stock Volume Litres	Stock Solution (mg/l available chlorine)	Proportioner Setting	Dosage (mg/l available chlorine)
8.68g				
1	100	50	2.5%	1.25
10	1,000	50	2.5%	1.25
1	50	100	1.0%	1
10	500	100	1.0%	1
1	50	100	0.5%	0.5
5	250	100	0.5%	0.5
1	1	5000	0.1%	5
10	10	5000	0.1%	5
1	0.5	10000	100 ppm	1
60	30	10000	100ppm	1
60	30	10000	50 ppm	0.5

Caution: Wear protective gloves/eye protection and ensure process is completed in a well ventilated area.
Storage: Tub packed Tablets. Shelf life: 3 years. Store in a cool, dry and ventilated place.

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• **Simpler** • **Smaller** • **Safer** • **Stronger** • **Sustainable**



What is Aquatabs Food-Safe?

Aquatabs Food-Safe is an effervescent **purification** tablet for cleaning **fresh or pre-cut fruits and vegetables**, and for post harvest processing.

It **extends shelf-life** of fresh produce and make them **safe** for consumption without further treatment by **eradicating micro-organisms** such as *Listeria monocytogenes*, *Salmonella Spp.* and *Escherichia coli*.

Microorganism	Standard Test /Location	% Reduction
AeromonasHydrophila	MOD France	99.999
Campylobacter jejuni	MOD France	99.999
Clostridium perfringens	EN1276:1997 (mod)	99.999
Erwinea carotovora	Volcani Institute	99.999
Escherichia coli	AFNORNFT 72.301	99.999
Escherichia coli O157	EN1276:1997 (mod)	99.999
Gardia Cycts	OAC	99.9
Lactobacillusplantarum	AFNORNFT 72.301	99.999
Listeria monocytogenes	EN1276: 1997 (mod)	99.999
Pediococcus spp.	EN 1276:1997	99.999
Pseudomonas spp	AFNORNFT 72.301	99.999
Poliovirus		99.99
Raoultella terrigena	EPA water purifier challenge test	99.999
Rotavirus		99.99
Saccharomyces cerevisiae	EN 1650:1998	99.999
Salmonella spp.	MOD France	99.999
Staphylococcus aureus	AFNORNFT 72.301	99.999
Vibrio cholerae	MOD France	99.999
Yersinia enterocolitica	MOD France	99.999

Value & Benefits

- **Broad range biocide:** inactivate wide range of micro-organism
- **Food Safe:** National Sanitation Foundation (NSF) certified
- **Easy to use:** dissolve in water within minutes
- **Cost effective:** 1 tablet produce 20 Litre of water for purifying & cleaning
- **Solid form:** easy to store, no leakage
- **Accurate dosing**

Efficacy Studies

- **Biocidal activity** certified by **3rd party** independent laboratories & universities
- **Shelf-life extension** verified via accelerated shelf-life testing & sensory evaluation
- **Food safety** certified by **National Sanitation Foundation (NSF)**

Active Ingredient: NaDCC

NaDCC is the **next generation** chlorine disinfectant.

- **Stronger:** generate hypochlorous acid (HOCl), a far stonger anti-microbial agent than hypochlorite (ClO⁻). Anti-biofilm. Sporicidal.
- **Safer for Skin:** near-Neutral pH (~6)
- **Safer for Lungs:** **Less chlorine** evolved
- **Slow release:** 50% HOCl held in reserve
- **Cost effecient:** A 1.67g tablet generates 20 litres of treated water
- **Low elimination half-life:** 40 mins
- **Environmental friendly:** Non-bioaccumulating. Degrades under UV.
- **GMP:** ISO 9001, ISO 14001 & ISO 45001

References: AFNOR: Association Francaise de Normalisation, MOD: Ministry of Defense, AOAC: Association of official Analytical Chemists

How to use Aquatabs Food-Safe

For **ready to eat (RTD)** produce consumed within 24 hours

- Remove as much dirt and debris from the fruit and vegetables as possible (brush or wash)
- Add **1 tablet to 20 litres** of water. Where possible ensure that the temperature of the rinse water is about 10° Chigher than that of the fresh produce.
- Add the fresh produce to the treated water and rinse with agitation for a minimum of 30 seconds, up to 5 minutes if possible. Ensure that the trapped air in some vegetables e.g. broccoli is removed.
- Fruit and vegetables should be eaten as soon as possible after rinsing.
- If storage is required, remove the produce and shake off excess water, spin dry if possible. Place in a sealed polythene bag or air tight container and refrigerate at 4 - 8°C for as short a period as possible up to 24 hours

Where storage of fresh produce is required for **more than 1 day**.

- As previous except:
- Add **2 tablets to 20 litres** of water.
- Remove fresh produce, dry and store
- Immediately before use, remove the fresh produce from store and rinse with potable water



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