

# Aquatabs

|                   |                     |               |            |                     |              |
|-------------------|---------------------|---------------|------------|---------------------|--------------|
| Source Protection | Safe Transportation | Sedimentation | Filtration | <b>Disinfection</b> | Safe Storage |
|-------------------|---------------------|---------------|------------|---------------------|--------------|

## What is it?

Aquatabs are self-dissolving water disinfection tablets made and sold by Medentech Ltd for household water treatment. When the active ingredient—sodium dichloroisocyanurate (NaDCC)—reacts with water, it releases hypochlorous acid, which inactivates microorganisms. The tablets are produced in a range of sizes, each made to treat a certain volume of water, from 1 L to 2,500 L.

## Performance

### Microbiological Effectiveness:

| Parameter                    | Effectiveness         |
|------------------------------|-----------------------|
| Bacteria                     | Very Effective (>99%) |
| Viruses                      | Very Effective (>99%) |
| Cryptosporidium (Protozoa)   | Not Effective*        |
| Ascaris (Helminth)           | Not Effective*        |
| Other Protozoa and Helminths | Very Effective*       |

\*Assumption based on performance of other chlorine products. No independent tests available.



### Other Parameters

Not effective for chemical contaminants or turbidity.

### Source Water Requirements

Turbidity, organic matter, pH, and temperature affect how well chlorine works. Turbid water (>50 NTU) should be settled or strained before adding chlorine.

### Capacity

Tablets are dosed to treat specific volumes, ranging from 1 L to 2,500 L. Treatment time is at least 30 minutes.

### Lifespan

Shelf life is 5 years in strip packs and 3 years in tubs.

## Ease of Use & Acceptability

### Operation & Maintenance

Users add the correct size of tablet for the amount of water to be treated, following the manufacturer's instructions. They mix well, then allow the water to sit for 30 minutes to provide time for the chlorine to react with contaminants.

### Repair & Replacement

New tablets must be purchased regularly.

### User Considerations & Preferences

Users must follow manufacturer's instructions to ensure effective treatment. An ongoing supply chain is needed for replacement tablets. Some users do not like the taste or smell of chlorine. Free chlorine residual protects against recontamination.

## Feasibility

### Availability

Sold in many countries. Tablets can be bought in bulk and packaged locally; this requires tablets, packaging materials, and workshop space.

### Cost

US\$10.95 per person per year, assuming treatment of 20 L/day.

### Size & Weight

Very small and easy to transport.

## More Information

Details and references: [www.hwts.info/products-technologies/114cf355/aquatabs](http://www.hwts.info/products-technologies/114cf355/aquatabs)

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