

Free FlowTM



GeoKleen, Inc. is listed by NSF International
Reg. No. 136258 Category Code A4, L2

BEVERAGE TOWER DRAIN LINE CLEANER Designed for institutional and commercial applications.

PRODUCT DATA SHEET

FREE FLOWTM Beverage Tower Drain Cleaner is an innovative and highly competent formulation designed specifically to prevent and degrade build – up of organic deposits commonly found in beverage tower drain lines. **FREE FLOWTM** contains both microbial and enzymatic elements that work in combination to simultaneously prevent and breakdown deposits that can form in beverage tower drain lines.

Beverage tower drain lines are known to be nutrient deficient environments. In addition, beverage tower drain lines contain an abundance of carbohydrates (sugar), which is a direct result of the overflow of soft drinks. The *Acetobacter* microbes found in **FREE FLOWTM** thrive on the excessive amounts of carbohydrates typically found in these types of drain lines. When the sugar in the drain lines begin to degrade and break down, the formation of cellulosic polymers (referred to as *sugar snakes*) occur. When left untreated, sugar deposits can accumulate to restrict and, eventually, block the flow of liquid through the drain lines. Once beverage drain lines become restricted or blocked, they have the potential to harbor and accelerate foul odors which will eventually result in line replacement or costly plumbing services.

Through consistent use, the powerful enzymes and cellulose – degrading bacterial strains found in **FREE FLOWTM** eliminates problems by digesting and reducing harmful cellulosic polymers (sugar snakes) and other organic materials commonly found in untreated drain systems.

FREE FLOWTM may be used to treat drain systems where cellulosic build – up is a problem:

- Fast food restaurants
- Hotels, restaurants, and taverns
- Grocery store drain lines from chiller and freezer cabinets

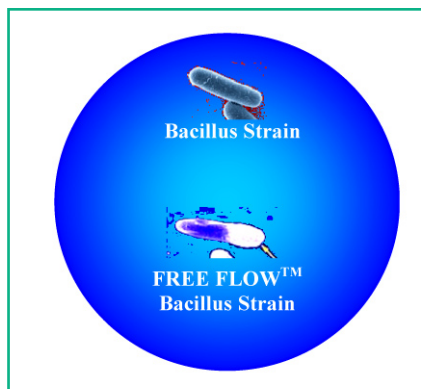


Figure 1: In a laboratory setting, two *Bacillus* strains were streaked onto a Carboxy Methyl Cellulose (CMC) agar plate and were incubated at 86° Fahrenheit for 48 hours. As demonstrated, the *Bacillus* strain in **FREE FLOWTM** Beverage Tower Drain Cleaner produced more cellulose enzyme than the *Bacillus* strain on the top, indicated by the larger zone of clearing.

BENEFITS

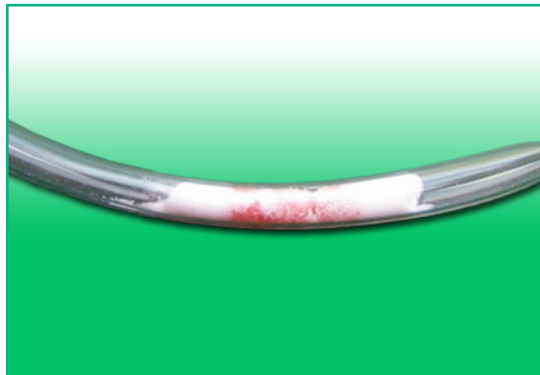
- Dissolves cellulose build – up
- Reduces plumbing costs
- Reduces unpleasant odors
- Safe and easy to use
- Non – corrosive, non – caustic formula
- Eliminates or minimizes the attraction of fruit flies

PRODUCT CHARACTERISTICS

Bacteria Specification	1.0 x 10 ⁷ cfu/ml
Bacteria Type	<i>Bacillus</i> strain
Salmonella	Not detected
pH Range	4.7 – 6.0
Stability	1 year at 46° – 95° F (5° – 35° C)
Appearance	Blue – green liquid
Fragrance	None added

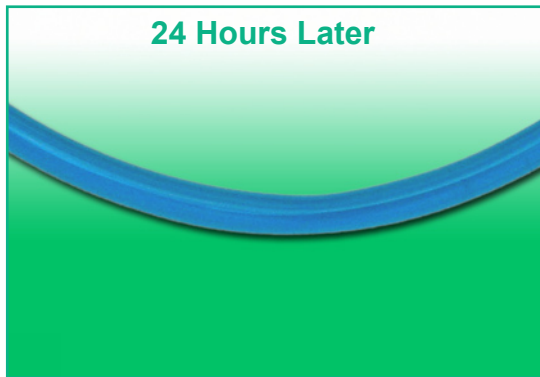


Before Treatment



Free Flow™ Beverage Tower Drain Cleaner

24 Hours Later



Chemical-based Drain Product

One Week Later



Figure 2 at left: FREE FLOW™ Beverage Tower Drain Cleaner was tested against a commercially available drain treatment product. Approximately one gram of sugar snake material was doused with 5mL of FREE FLOW™ Beverage Tower Drain Cleaner and another specimen with an equal amount of a commercially available chemical based product. After 24 hours, FREE FLOW™ Beverage Tower Drain Cleaner has completely degraded the sugar snake, while the chemical – based product has not degraded the sugar snake even after one week of treatment.

RECOMMENDED USE DIRECTIONS

Dose at the end of the day and allow product to work overnight. Start up: Add 2 – 4 ounces per tower drain line per day for 3 days. Maintenance: Add 2 ounces per drain, per week. For blocked lines: Add 4 – 8 ounces per drain, per day until lines are free flowing, then follow weekly dosing recommendations.

STORAGE AND HANDLING

Store in cool, dry place. Avoid excessive inhalation. Wash hands thoroughly with warm, soapy water after handling. Avoid eye contact.

This product is not approved for use in Canada.

AVAILABLE PACKAGING

- 4 x 1 gallon case
- 5 gallon pail
- 55 gallon drum

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