

— A PILOT PROPOSAL · INTRODUCED BY PAUL SCIALLA

Clean shouldn't *hurt the animals* it's meant to protect.

A 90-day pilot bringing the world's first post-toxic cleaning system into animal shelters — from kennel runs to cat wards to surgery suites.

— THE DISINFECTANT PARADOX

The chemicals protecting animals from disease are *making them sick.*

8×

Shelter cats and dogs carry **elevated QAC residues** in feces vs. pet-home animals — from cage surfaces they groom and lick.

< 2%

Concentration at which QACs cause **oral ulceration, drooling, fever, and pneumonia** in cats — often misdiagnosed as a calicivirus outbreak.

54%

Higher asthma risk among cleaning workers — documented for shelter staff exposed to bleach, quats, and phenols daily.

THE INDUSTRY’S OPEN SECRET

Every option on the shelf
comes with a *warning label*.

Read the Merck Veterinary Manual, the Koret Shelter Medicine Program, or the ASPCA infection-control guide. Every disinfectant in common use has a known toxicity profile — and none are safe for the animals while being applied.

COMMON SHELTER DISINFECTANTS	PER SHELTER MEDICINE LIT.
Bleach (1:32) Caustic, corrosive, respiratory irritant · must be re-mixed daily	IRRITANT
Quats (Roccal, KennelSol, A-33) Toxic to cats · does not reliably kill parvo / panleuk / calici	TOXIC · CATS
Phenols & pine oils Lysol, Pine-Sol · fatal to cats · ASPCA explicitly warns against use	DO NOT USE
Accelerated H₂O₂ / Rescue™ Safer — but caustic at use concentration; 5-min dwell, must rinse	CAUTION
Mother Ferment residue Food-derived · GRAS-grade · safe if licked from a paw	SAFE

THE INDUSTRY MISSED THIS

For 70 years, shelter medicine has
cycled between *toxic* and
greenwashed.

PETROCHEMICAL

Effective but toxic, corrosive, and hazardous
to animals.

Bleach, quats, and phenols — the incumbent standard, with documented
mortality in cats and chronic respiratory harm in staff.

"GREEN"

Marketed as safer. Often just diluted
petrochemistry.

Many green cleaners emitted **more** VOCs than petrochemical
counterparts. Several contained undisclosed carcinogens.

BIOFERMENTED · POST-TOXIC

Not petrochemical. Not greenwashed.
Fundamentally different.

An entirely new category — built outside both legacy industries from
food-derived, GRAS-grade ingredients.

The shelter chemical closet, *reduced to three products.*

From kennel runs to cat wards. From intake to surgery recovery.



01 · MF-011:32 CONCENTRATE

All-Surface Concentrate

Safe on a paw. Safe on a tongue.

Replaces 5-8 cleaners. Kennel walls, stainless cages, cat condos, exam tables, intake areas.



02 · MF-02READY-TO-USE

Advanced Antimicrobial

100× stronger than Lysol. Safer than salt.

5.69-log pathogen reduction. Parvo · Bordetella · Calici · Panleuk · Ringworm.



03 · MF-03DIRECT APPLICATION

Floor & Run Stripper

Strips runs. Not lungs.

No PPE, no fumes. Epoxy kennel floors, drains, outdoor runs — safe while animals are nearby.

— TOXICITY · MEASURED, NOT MARKETING

1.7× safer
than table salt.

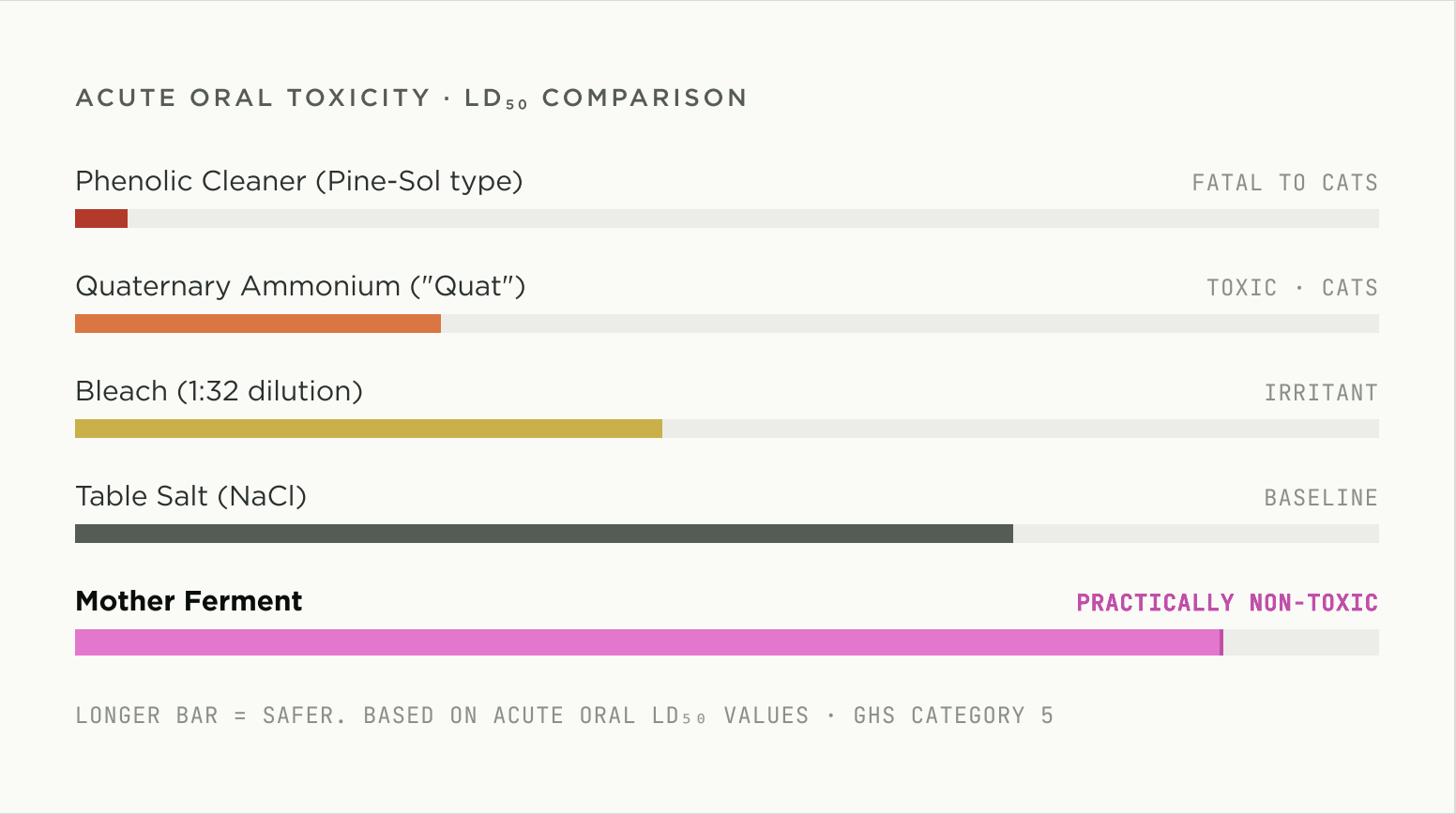
Mother Ferment tests into the highest global safety category — “practically non-toxic” — across all three products. No VOCs. No endocrine disruptors. No carcinogens. No skin sensitizers. Safe on a cat’s tongue. Safe in a puppy ward.

- Zero VOCs

• Safe Around Cats

• EPA 25(b) Exempt

• GRAS Ingredients Only



— SAFETY + PERFORMANCE · NO TRADEOFF

And unlike quats, it *actually kills parvo*.

100_× Stronger than Lysol on shelter pathogens — with the safety profile of our all-purpose cleaner.	96% Cleaning efficacy at a 1:32 dilution — matches the bleach benchmark shelter medicine already uses.	5.69_{log} Pathogen reduction (99.9998%). Independently verified against non-enveloped viruses by Eurofins.	3_{SKUs} Replaces 40+ legacy chemicals — bleach, quats, phenols, AHP, degreasers — across the whole shelter.
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TESTED AGAINST Canine Parvovirus · Feline Panleukopenia · Calicivirus (FCV) · Bordetella · Ringworm spores

— BUILT FOR SHELTER REALITIES

Fewer outbreaks. Fewer injuries.
Better adoptions.

ANIMALS · KENNEL · CAT WARD · SURGERY

- 01

End QAC toxicosis in cats
No more oral ulcers, drooling, fevers that mimic calici outbreaks. No wet-surface protocols.
- 02

Reduce CIRDC & URI flare-ups
Airway irritation from bleach and quat fumes is a known CIRDC co-factor — remove it, reduce flare-ups.
- 03

Parvo & ringworm efficacy bleach-equivalent
No more "quat-works-except-on-the-ones-that-matter." A single chemistry for everything.

STAFF · VOLUNTEERS · ADOPTERS

- 04

Safer for high-turnover staff and volunteers
No daily bleach-mixing. No PPE complexity. No respiratory claims. Easier to train, easier to retain.
- 05

Adoption experience, redesigned
No bleach smell. No watery-eyes walkthrough. Adopters meet calmer animals in a cleaner-feeling space.
- 06

One chemistry, one SOP, one closet
1:32 concentrate · no daily mixing · no lockboxes · donor-grade cost transparency per kennel-day.

— THE ASK

A *90-day pilot* across 10–20 shelters.

Measured side-by-side against your current sanitation protocol — on outbreak rates, staff incidents, cost per kennel-day, and adoption-area feedback. No rip-and-replace. Just evidence.

SCOPE

10–20 shelters

Mix of municipal, private, and rescue. Dog kennel, cat ward, and surgery suite coverage.

DURATION

90 days

One sanitation SOP. Full product kit. On-site support from our team & a DVM advisor.

METRICS

4 KPIs

CIRDC / URI rate · staff incident log · cost per kennel-day · length-of-stay delta.

OUTCOME

Rollout plan

A system-wide pathway informed by your data — publishable alongside your shelter medicine team.

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We are not cleaning kennels.
*We are removing harm from
the system.*

Mark Queenan
Scientific Founder · Bioferment Technologies, Inc.

LET’S TALK

motherferment.com
bioferment.tech

SANFORD, FL