

WITH NEW
EPA CLAIM!

SYNERGEX™

An EPA-registered Sanitizer and Disinfectant

- Sanitizer
- Disinfectant
- COVID-19 Expected Efficacy*
- **NOW:** Food Contact Surface Biofilm Claims

*Synergex has demonstrated effectiveness against viruses similar to SARS-CoV-2 on hard, non-porous surfaces. Therefore, Synergex can be used against SARS-CoV-2 when used in accordance with the directions for use against Reovirus on hard, non-porous surfaces. Refer to the CDC website at [cdc.gov/coronavirus](https://www.cdc.gov/coronavirus) for additional information.



SYNERGEX BENEFITS

Significant, Measurable and Progressive Benefits



FOOD SAFETY

In-line monitoring
enables accurate
dosing & proof of
delivery



PRODUCT QUALITY

Improved quality
assurance through
additional broad
efficacy against
yeast & mold



PRODUCTIVITY

Excellent mineral
solubility helps
reduce frequency of
acid washes saving
labor and resources



SAFETY

Safer dispensing,
and a reduced
exposure risk for
employees



AIR

Reduced odor and
total volatiles



WASTE

No phosphorous
formulation,
lower use of
concentration
reduces effluent
impact

DELIVERING RESULTS THAT MATTER TO YOU

SYNERGEX BENEFITS

Significant, Measurable and Progressive Benefits



FOOD SAFETY

Biofilm Reduction
Claims at food contact, no rinse concentrations

In-line monitoring
enables accurate dosing & proof of delivery



PRODUCT QUALITY

Improved quality assurance through additional broad efficacy against yeast & mold

Reduces spoilage-causing organisms in biofilms that impact product shelf life



PRODUCTIVITY

Excellent mineral solubility helps reduce frequency of acid washes saving labor and resources



EMPLOYEE SAFETY

Safer dispensing, and a reduced exposure risk for employees

Reduced odor and total volatiles



WASTE

No phosphorous formulation, lower use of concentration reduces effluent impact



PUBLIC HEALTH

Expected efficacy SARS-CoV-2*

DELIVERING RESULTS THAT MATTER TO YOU



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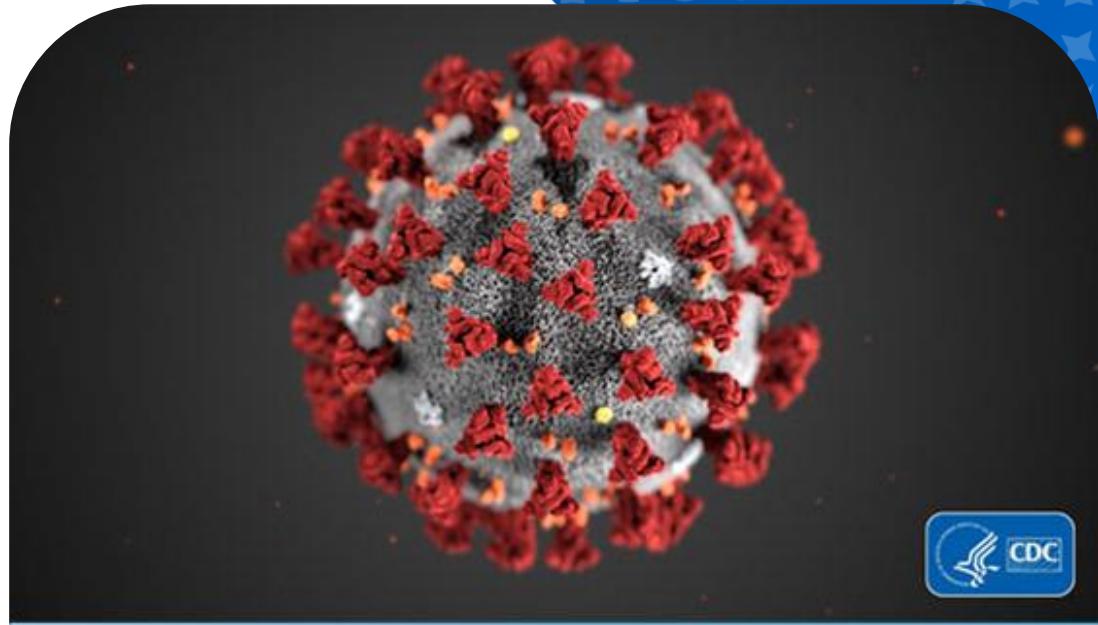
Emerging pathogen claims



Synergex is expected to be effective against the emerging viral pathogen, SARS-CoV-2* at no-rinse concentrations**



Approved for use in US and Canada



COVID-19 RESPONSE

Biofilms: “A city of microbes”

“

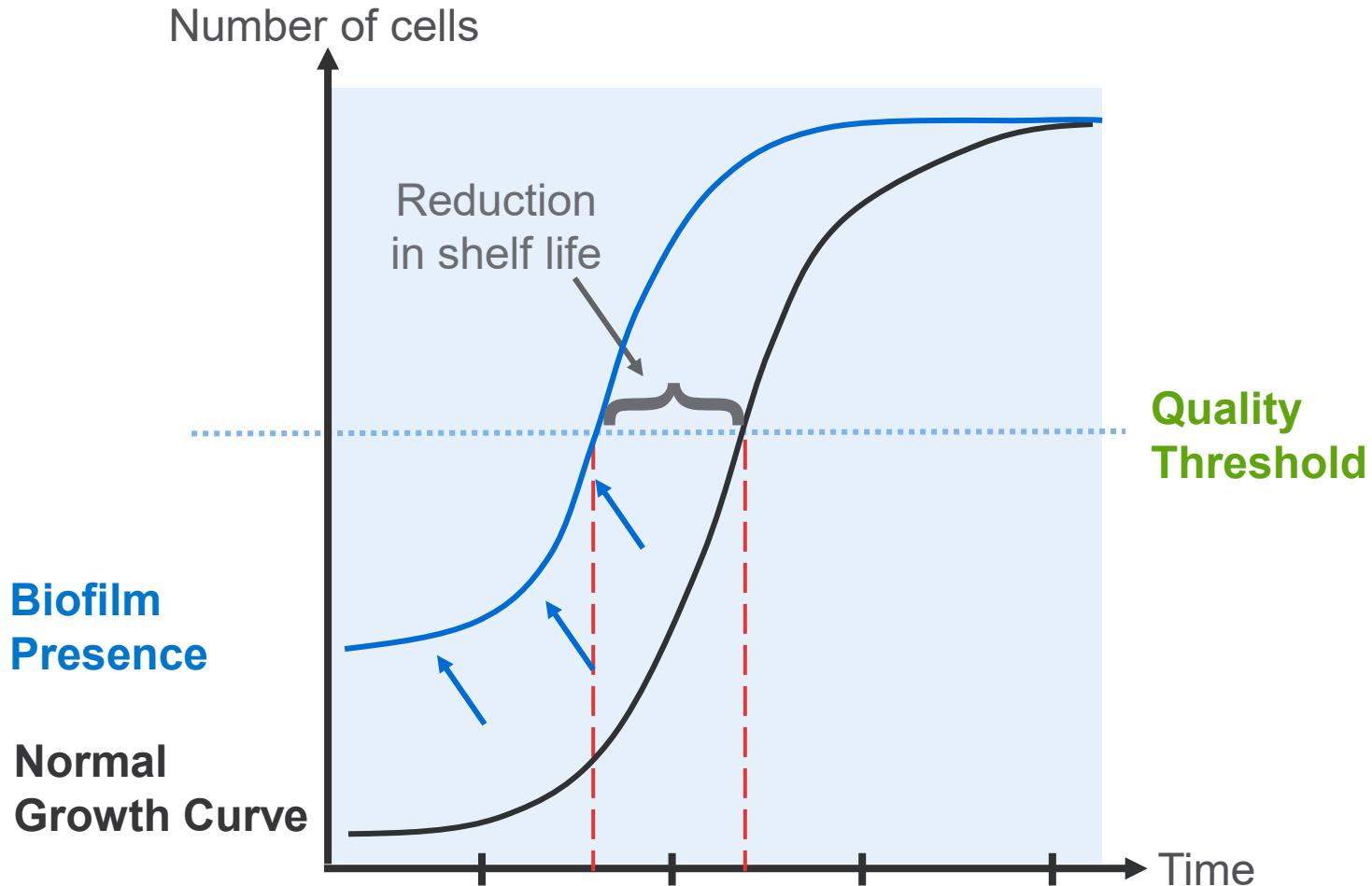
A biofilm is a complex, structured community of bacteria and other microorganisms attached to a surface. The population of a biofilm often undergoes morphological and metabolic changes, enabling microorganisms to survive in an otherwise inhospitable environment.

”

Costerton *et al*, 1995. Ann Rev. Microbiol. 49: 711-745

Shi and Zhu, 2009. Trends in Food Sci. and Technol. 20: 407-413

BIOFILMS IMPACT Organism Growth & Product Quality



The presence of biofilms after cleaning provides a 'head start' for organism to grow, allowing micro levels to exceed the quality threshold sooner in the process.

New biofilm claims

1

2

3

Biofilm Sanitizing Treatment		
Use Rate	Minimum Conditions for Use	Post-Treatment Rinse Requirement
1 fl. oz. / 4–4.5 gallons of [water] [tap water] [up to 500 ppm hard water] (0.173–0.195%, 1730–1950 ppm product)	10 minutes (at a minimum of 33°C)	No rinse necessary
1 fl. oz. / 4–4.5 gallons of [water] [tap water] [up to 500 ppm hard water] (0.173–0.195%, 1730–1950 ppm product)	25 minutes (by immersion or CIP circulation)	No rinse necessary
1.54–1.92 fl. oz. / 3 gallons of [water] [tap water] [up to 500 ppm hard water] (0.40–0.50%, 4000–5000 ppm product)	5 minutes	Potable water rinse required

WHAT'S UNIQUE
ABOUT THE CLAIMS?

1. Kills **biofilms** on hard, non-porous food contact surfaces
2. Achieve efficacy with **NO RINSE** options!
3. Minor changes to current SSOP required to achieve biofilm reduction

Synergex Biofilm Claim Benefits

BIOFILM CLAIM*

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1

Penetrates & Kills
biofilms on hard, non-porous food contact surfaces.

No Rinse Required!



2

EPA-approved Sanitizer
to destroy biofilms at sanitizer concentrations



3

Penetrates biofilms, **kills a minimum of 6 log of *Listeria monocytogenes* & *Pseudomonas aeruginosa*** as a no rinse sanitizer.



4

Reduces prevalence of spoilage-causing organism in biofilms that impact product shelf life.

How did Synergex achieve these claims?

Ecolab developed the EPA-approved testing method!



Synergex outperforms anything on the market!

