

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

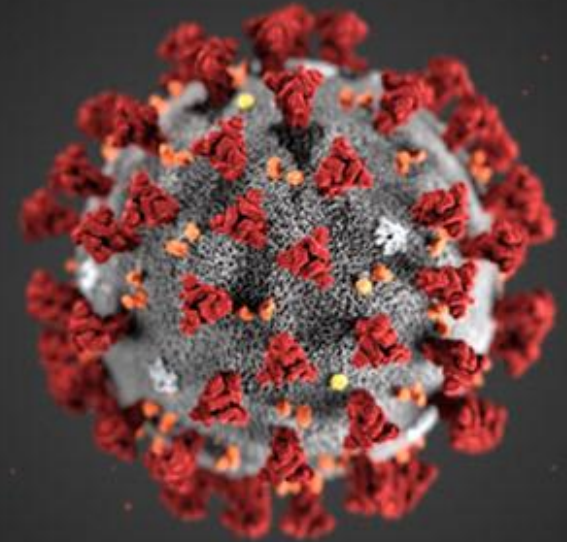
# Emerging pathogen claims



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”

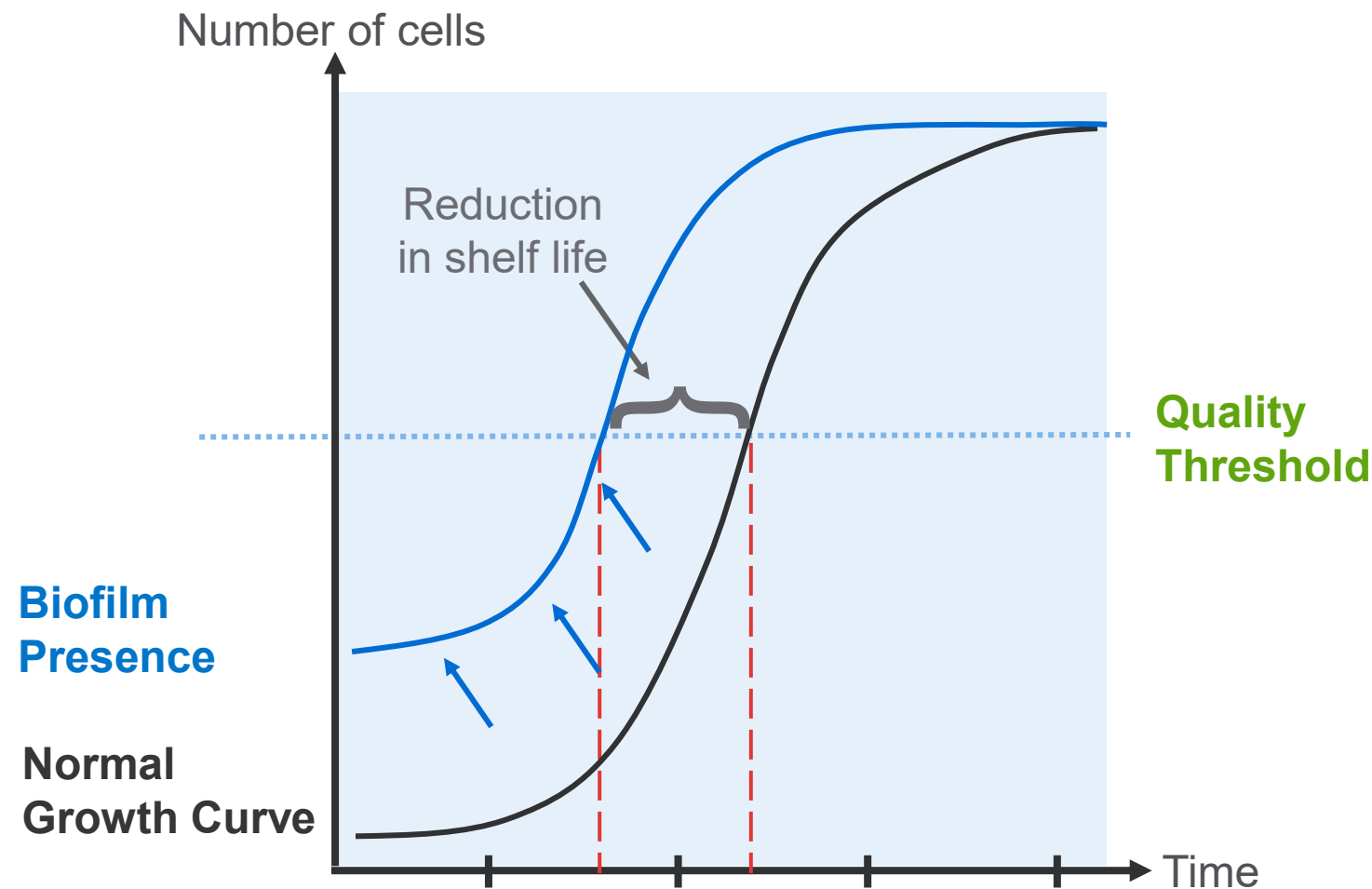
“

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\*

Biofilm Sanitizing Treatment

Use Rate	Minimum Conditions for Use	Post-Treatment Rinse Requirement
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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!

