

# InvîsiShield

Redefining food protection





## InvîsîShield™

### One-of-a-kind active packaging system protects against pathogens

Our groundbreaking antimicrobial delivery system provides the final risk reduction step after the food package is sealed at your facility to prevent food-borne illnesses, protecting your brand and your customers.

#### What it is

InvisiShield $^{\text{\tiny{TM}}}$  technology is seamlessly integrated into a sealed package to protect fresh produce against bacteria and viruses like *Salmonella*, *E. coli*, Human norovirus, and *Listeria monocytogenes* without negatively impacting the product's freshness and organoleptics.

#### How it works

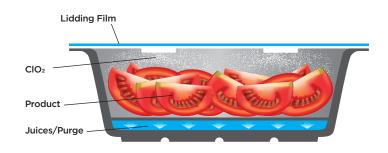
InvisiShield™ technology works inside the sealed package to safely release a specially formulated amount of ClO₂ into the environment surrounding the fresh cut produce. This helps eliminate pathogens that may have been introduced through the supply chain, without coming into contact with the food itself. InvisiShield™ technology is applied via a Film Applicator Machine (FAM), which can be seamlessly integrated into an existing production line. We provide complete on-site technical support at our customers' facilities during packaging to assure simple integration and successful implementation.

#### **Benefits**

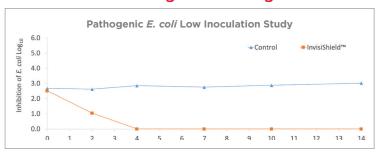
- Final intervention step and reduction of cross contamination within the sealed package
- 3rd party validation studies show effective against (1-3 logs): Pathogenic E. coli, Salmonella, Listeria monocytogenes, Human norovirus, Hepatitis A, Shigella, Campylobacter jejuni, Staphylococcus aureus, Yersinia enterocolitica, Vibrio vulnificus, Geotrichum candidum, Feline calicivirus, and Rotavirus
- Decrease in food borne illnesses due to pathogen contamination
- Outbreak mitigation without compromising quality and taste of products



- pH range: 3.5-7.5
- Temperature range: 1-12°C
- Multiple application formats available to adapt to a wide variety of packaging and delivery systems
  - Automated inline systems available
  - Available in pouches or integrated into lidding film
  - Customization for unique packages and delivery of products available
- GRAS approved technology



#### **Effective Against Pathogens**



3rd party validation studies proven through sliced and diced tomatoes

Proven 1.5 to 3 log reduction during challenge studies for the following:

- Salmonella
- E. coli
- Listeria monocytogenes
- Human norovirus
- Hepatitis A
- Shigella
- Campylobacter jejuni
- Staphylococcus aureus
- Yersinia enterocolitica
- Geotrichum candidum
- Vibrio vulnificus
- Feline calicivirus
- Rotavirus