Listeria Facts and Control Strategies for Produce Processing Plants

Risk and dangers of *Listeria monocytogenes* in your facility:

- *Listeria monocytogenes* is a bacterium that thrives in cold, wet environments.
- L. monocytogenes can cause food-borne illness and is associated with a high mortality rate compared to other food-borne illness pathogens.

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- L. monocytogenes grows at refrigeration temperatures, survives freezing, and tolerates high salt and acid concentrations.
- *L. monocytogenes* thrives in biofilms and once established in a facility, *Listeria* is very difficult to remove.
- Foods susceptible to *L. monocytogenes* contamination include: •
 - Ready-to-eat (RTE) produce (cut 0
 - and whole) including sprouts
 - 0 Salads Sandwiches 0
 - 0 Crab 0 Soft cheeses
 - 0 Shrimp Dairy products 0
- L. monocytogenes can enter your plant on shoes, clothing, carts, pallets, and forklifts.
- L. monocytogenes often populates floors, drains, conveyors, and loading docks.

Control Measures to Prevent Product Contamination:

- Ensure tight controls between ready to eat (RTE) processing areas and raw ingredient (non-RTE) areas such as:
 - 0 Personnel **Cleaning procedures** 0
 - Positive air-flow Equipment 0 0
 - Food movement 0
- Provide written Sanitation Standard Operating Procedures (SSOP's) for food and non-food contact equipment and the proper implementation, verification, and validation of sanitation procedures.
- Document SSOP training, application dates, times, and personnel.

Sanitation Procedures:

- Give special attention to the prevention of cross-contamination, food-contact areas and other plant areas that • are difficult to clean and may harbor Listeria. Some Examples:
 - O Drains Coolers

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- O Equipment
- Sponges
- O Condensate O Mops
- Use appropriate designated tools to allow scrubbing of food and non-food contact surfaces to remove soils and biofilms.
- Power washing should only be used in limited applications where overspray will not contaminate other equipment and products.
- Use appropriate detergent and sanitizer applications.
- Conduct post-cleaning inspection and documentation of procedure dates, times, and personnel.



- Any water collection area 0
- 0
- 0 Conveyors

Listeria testing in the facility:

- Develop a scientifically valid testing (environmental monitoring) plan that includes specific testing locations of both food and non-food contact equipment (Zone 1 – Zone 4) which includes the timing and frequency for collecting and testing samples.
- Environmental monitoring is required under <u>CFR 117 Subpart C</u> unless the facility is exempt as listed by <u>Subpart</u> <u>A CFR 117.5</u> or documented to be exempt by FDA attestation.
- Develop a corrective action and correction plan upon receiving positive sample results.

For more information about *Listeria*:

- Listeria training for plant personnel is available in seven (7) languages at: <u>https://phpa.health.maryland.gov/OEHFP/OFPCHS/Pages/Food-Processing-Guidance.aspx</u>
- 3 C's of *Listeria*: Characteristics, Contamination, and Control webinar: <u>https://www.youtube.com/watch?reload=9&time_continue=11&v=I8NSscc-B20</u>
- FDA Draft Guidance on Control of *Listeria* RTEFoods-2017-01-10 <u>https://www.fda.gov/regulatory-</u> <u>information/search-fda-guidance-documents/draft-guidance-industry-control-listeria-monocytogenes-ready-</u> <u>eat-foods</u>
- MDH Office of Food Protection *Listeria* Prevention and FSMA rules in Manufactured Foods factsheet <u>https://phpa.health.maryland.gov/OEHFP/OFPCHS/Pages/Food-Processing-Guidance.aspx</u>
- New York Integrated Food Safety Center of Excellence: <u>https://nyfoodsafety.cals.cornell.edu/</u>