

Listeria: The Solutions

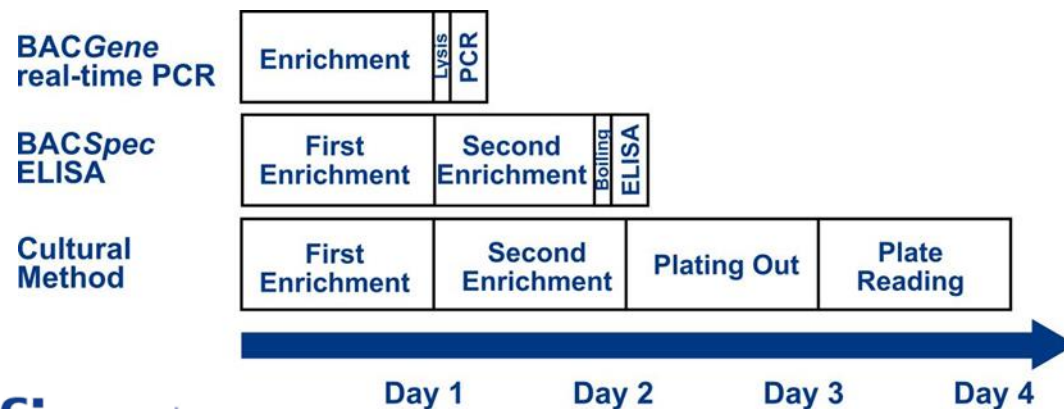
Dr TE ERASMUS

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Listeria- Rapid Testing

- Why ?
 - Opportunity to identify problems before finished product contamination, recalls & regulatory actions
 - Rapid results (within 24 hours) be proactive vs reactive





Listeria- Rapid Testing cont.

- Why ?
 - Limits down time = cost saving
 - Inventory write-off affects operating profit
 - Testing cost vs product recall

Listeria- Testing cont.

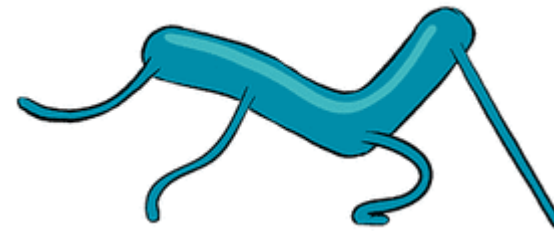
- What ?
 - Raw Material
 - Cold smoking
 - New sources
 - Continuous monitoring
 - Environment
 - Food contact surfaces
 - Non-Food contact surfaces
 - Finished product





Listeria- Testing

- What for?
 - Listeria spp. & Listeria monocytogenes
- Listeria species
 - 5-10% Listeria species positive for L. monocytogenes
 - Process Hygiene Indicator
- Listeria monocytogenes
 - Food adulterant
 - Environmental control essential





Listeria- Environmental Testing

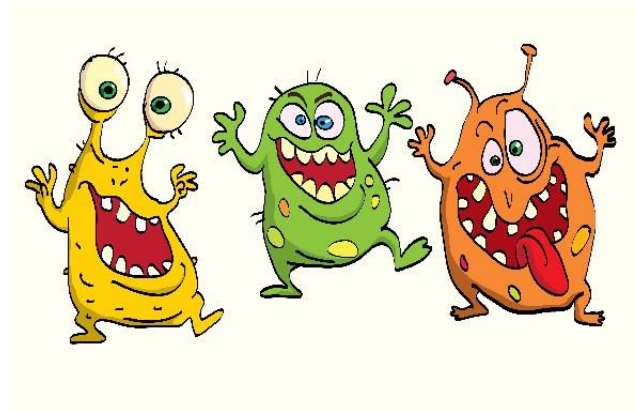
- Much more critical than finished product
- Testing program:
 - When:
 - Before start-up
 - Mid-shift
 - End of shift
 - Where:
 - Product contact surfaces
 - Wheels, etc
 - Drains





Listeria- Environmental Testing

- How often:
 - Weekly
 - Monthly
- Each monitoring plan = Process Plant specific
 - Food contact surfaces, if positive = end product testing
 - Non food contact surfaces
 - Floors & Drains
 - Cooling facilities
 - Conveyances
- Positive Results



Listeria- Positive Result

- Additional samples from positive area
- Additional samples after corrective actions
- Constant monitoring and evaluation of test results



Pathogen Monitoring

- Environmental risk assessment
- Plant map
- Conduct a hygienic zone assessment
- Determine sample sites
- Determine sampling frequency
- Evaluate sampling materials
- Collect environmental samples
- Submit samples to lab for testing
- Evaluate testing technologies
- Develop corrective action plan
- Implement standard operating procedures and training of staff
- **REVIEW, REFINE, REVAMP**



SciCorp Laboratories (Pty) Ltd
4 Shortts Retreat Road
Mkondeni, Pietermaritzburg
3201

Tel: 033 386 1560
admin@scicorplab.com
<http://scicorplab.com>



Thank you