



MATRIX TRIX OF THE TRADE

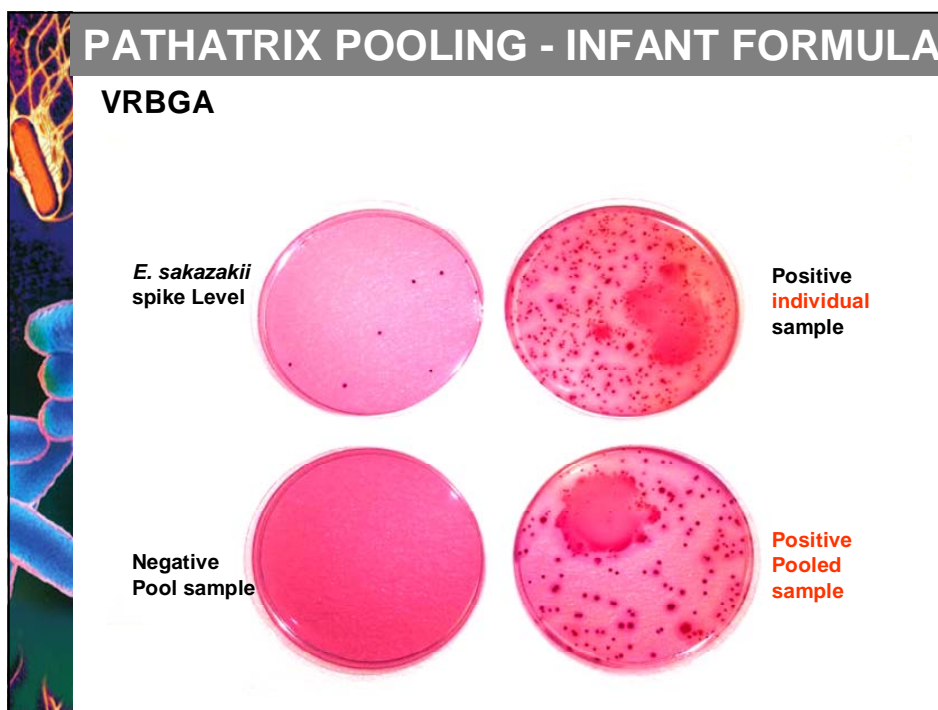
M I C R O S C I E N C E

A Novel and Rapid Method for the Detection of *Enterobacter sakazakii* and Other *Enterobacteriaceae* in Infant Feed Formulas and Milk Powders.

Matrix MicroScience has launched a novel and rapid method for the detection of *Enterobacter sakazakii* and other *Enterobacteriaceae* in infant feed formulas and milk powders. The method utilises cationic (positively charged) paramagnetic particles.

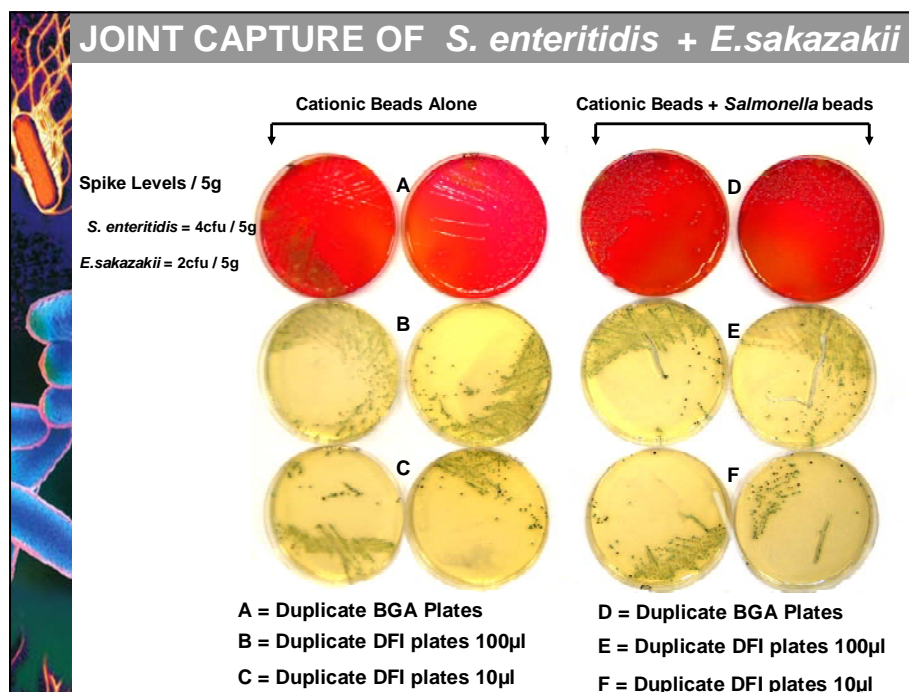
The key features offered by the new method are:

- **Reduction in time to result** from the current 4+ days taken by the FDA method to a new test time of 23 hours, from sampling to final colonies on selective agars.
- **Increase in sample throughput** and the opportunity to increase the size of the sample tested—up to 500 g, as opposed to the current test limit of 100 g. In this case, the Pathatrix pooling strategy is used.



- **Compatibility** with the all currently available end-point detection systems, e.g. selective agars, PCR, ELISA, colorimetric tests, etc.
- **Simplicity of use and implementation**, and using the same techniques and equipment that are used on the Pathatrix system to detect other pathogens, e.g. *Salmonella*, *Listeria*, *E. coli* O157, MAP, viruses, etc.

In addition to the above, the unique use of cationic (positively charged) particles offers the additional benefit that this approach also captures other *Enterobacteriaceae* including *Citrobacter diversus*, *C. freundii*, *E. cloacae*, *Klebsiella oxytoca*, *K. pneumoniae*, *K. aerogenes*, *Serratia marcescens*, *Salmonella enteritidis*, *S. typhimurium* and *S. poona*, so offering the possibility to conduct an initial *Enterobacteriaceae* screen followed by specific tests for *Enterobacter sakazakii* or *Salmonella spp.*



This simple and cost-effective method has considerable promise for the early detection of *E. sakazakii* and other *Enterobacteriaceae* in infant feed formulas.

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