



# **Foodborne Infections and Intoxications: Chapter 16. Cronobacter Species (formerly Enterobacter sakazakii) (Food Science and Technology)**

*B.D. Tall, C.J. Grim, A.A. Franco, K.G. Jarvis, L. Hu, M.H. Kothary, V. Sathyamoorthy, G. Gopinath, S. Fanning*

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Cronobacter is a newly described bacterial genus that includes pathogens formerly known as Enterobacter sakazakii. Cronobacter spp. are capable of causing invasive diseases in all age groups, but are primarily associated with meningitis, necrotizing enterocolitis (NEC), and septicemia in neonates. Outbreaks within neonatal intensive care units and individual cases have been associated with the consumption of reconstituted, temperature-abused, intrinsically or extrinsically contaminated powdered infant formula (PIF). PIF is not a sterile product and can pose a significant risk if it is prepared and handled inappropriately. Poor hygiene has been reported as the most likely cause of some Cronobacter outbreaks and cases. Currently, our knowledge about its pathogenicity is largely derived from experimental animal models of meningitis. Studies using a newborn rat infection model suggest that enterocyte apoptosis, controlled by the induction of high levels of nitric oxide synthase, may be responsible for triggering apoptosis events leading to NEC with doses as low as 100 CFU/g of PIF. Retrospective analyses of neonatal outbreaks have suggested that a total ingested exposure dose for a day, before the onset of the diarrhea, was approximately 4000 CFU. A common virulence repF1B-like plasmid has been described and was found to be harbored by 97% strains of Cronobacter spp. There are up to 10 serogroups known among the 7 Cronobacter spp. Following simple good hygiene practices, such as hand washing and washing of feeding and preparation equipment, preparing formula fresh for each feeding with boiled water that has been allowed to cool to no less than 70 °C, and discarding unused formula, should limit both intrinsic and extrinsic contamination of PIF and exposure to this pathogen.

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