

METHOD SUMMARY – QWI-FM0037

Method Title	DETECTION OF ENTEROBACTER SAKAZAKII ISO – MILK AND MILK PRODUCTS		
Document number	QWI-FM0037	Date Issued	13 th November 2018

Method External References	ISO/TS 22964: 2006(E) Milk and milk products – Detection of <i>Enterobacter sakazakii</i>
Matrix	Milk and Milk Products, Swabs collected from milk powder or infant formula factory.
ALS Department	<input type="checkbox"/> Pharmaceutical Chemistry <input type="checkbox"/> Water Microbiology <input checked="" type="checkbox"/> Food Microbiology <input type="checkbox"/> Pharmaceutical Microbiology <input type="checkbox"/> Food Chemistry
Accreditation Status	<input checked="" type="checkbox"/> NATA <input type="checkbox"/> NON-NATA <input type="checkbox"/> N/A
Analysis technique	<input type="checkbox"/> HPLC <input type="checkbox"/> GC <input type="checkbox"/> Wet Chemistry <input type="checkbox"/> Physical <input type="checkbox"/> Gravimetric <input checked="" type="checkbox"/> Qualitative <input type="checkbox"/> Pour Plate <input type="checkbox"/> Spread Plate <input type="checkbox"/> MPN <input type="checkbox"/> Filtration <input type="checkbox"/> Petrifilm <input type="checkbox"/> EHS <input type="checkbox"/> ELISA <input type="checkbox"/> VIDAS UP <input type="checkbox"/> VIDAS <input type="checkbox"/> TEMPO
Method Principle	<p>This method describes a procedure for the determination of the presence of <i>Enterobacter sakazakii</i> in milk powder and powdered infant formula. This method is also applicable to environmental samples (swabs) collected from milk powder or infant formula factories.</p> <p>The pre-enrichment medium (BPW) is inoculated with the test portion and incubated at 37 ± 1 °C for 16 to 20 hours. The selective enrichment medium (mLST/vancomycin) is inoculated with the culture obtained from the pre-enrichment and incubated at 44 ± 0.5 °C for 22 to 26 hours. A chromogenic agar plate (BESA) is inoculated with the selective enrichment obtained after incubation, and is incubated at 44 ± 0.5 °C for 22 to 26 hours. Typical colonies are selected from the chromogenic agar for confirmation. Isolates producing a yellow pigment on tryptone soya agar are biochemically characterized.</p> <p>Final result are expressed as Detected or Not Detected per X grams or mL or amount tested as per Client.</p>
Reporting Unit	Detected or Not Detected per X grams or mL or amount tested as per Client.
LOR/LOQ	<1

Minimum amount of sample required for analysis	25 g	Turnaround time	3 days
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Author:	Document Controller	Date:	11 th December 2018
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