

METHOD SUMMARY – QWI-FM0016

Method Title	Bacillus Coagulans Probiotic		
Document number	QWI-FM0016	Date Issued	N/A

Method External References	USP Bacillus coagulans		
Matrix	Food and Probiotic samples		
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 type="checkbox"/> NATA <input checked="" 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 type="checkbox"/> Qualitative <input checked="" 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>Transfer 1 g or required amount sample into a stomacher bag. Add 199 mL of previously sterilised peptone diluent.</p> <p>Incubate the tube in a water bath held at 75 °C for exactly 30 minutes, then immediately cool to below 45 °C.</p> <p>The sample preparation should be performed in triplicate. Take care to plate the sample preparation dilutions within 10-20 minutes of preparation.</p> <p>For each sample preparation tube to be plated, prepare petri plates as follows. Plate out appropriate dilution. Aseptically transfer 1.0 mL of the sample preparation separately into three appropriately labelled sterile 15 mm x 100 mm petri plates, then pour 15-20 mL of the molten BC agar medium into each plate, place the lid on each plate, then gently swirl the plates to mix the sample.</p> <p>Incubate them at 40 ± 2 °C for 48 hours, then count the colonies.</p> <p>Calculate the average number of colonies per plate, then multiply the average number of colonies counted by the reciprocal of the dilution factor to obtain the CFU/g of the sample.</p>		
Reporting Unit	CFU/g		
LOR/LOQ			

Minimum amount of sample required for analysis	50 g	Turnaround time	2 days
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