

METHOD SUMMARY – QWI-FM0131



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| Method Title | Enterococci Enumeration in Foods – In House | | |
| Document number | QWI-FM0131 | Date Issued | 10 th December 2019 |

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| Method External References | AS 5013.11.1-2018 Microbiology of the food chain – Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - General rules for the preparation of the initial suspension and decimal dilutions | | |
| | AS 5013.14.1-2010 Food Microbiology - Microbiology of food and animal feeding stuffs - General requirements and guidance for microbiological examinations - section 7.5 (holding temperature of media in water bath) | | |
| | OXOID, The Manual: Current Edition | | |
| | APHA: Standard Methods for the Examination of Water and Wastewater, | | |
| Matrix | Food 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"/> Other (please specify): _____ | | |
| Method Scope | <p>This method is used for the enumeration of Enterococci in food samples. This method employs KF Streptococcus Agar as a selective medium for the isolation and enumeration of Enterococci and Faecal streptococci.</p> <p>Food samples must be processed rapidly in order to ensure optimum isolation due to its sensitivity to many environmental conditions.</p> | | |
| Method Principle | <p>Enterococci is a sub group of the faecal streptococcus group and is used as an indicator of faecal contamination. The detection of these enterococcal species is indicative of recent contamination as the organisms survive for only a short period outside their natural habitat.</p> <p>Enterococci are Gram-positive cocci that often occur in pairs (diplococci) or short chains.</p> <p>The presence of TTC in the agar helps to distinguish between typical and non-typical colonies. Typical colonies are red-pink in colour.</p> | | |
| Reporting Unit | Enterococcus spp cfu per g/mL of sample | | |
| LOR/LOQ | < 1 | | |

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| Minimum amount of sample required for analysis | 10 g | Turnaround time | 2 working days |
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| Author: | Document Controller | Date: | 13 th December 2019 |
| Authorised By: | National Quality Manager | Date: | 13 th December 2019 |