

METHOD SUMMARY – QWI-FM0022

Method Title	YEAST & MOULD – FOODS WITH HIGH AND REDUCED a_w - AS		
Document number	QWI-FM0022	Date Issued	1 st May 2018

Method External References	AS 5013.29 2009 Microbiology for specific organisms – colony count of yeasts and moulds		
	AS 5013.14.1 2010 General guidance for microbiological examinations		
Matrix	As listed on NATA Scope.		
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 type="checkbox"/> Qualitative <input type="checkbox"/> Pour Plate <input checked="" 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 is used for low water activity foods ($a_w < 0.95$) and high water activity foods ($a_w > 0.95$).</p> <p>Food samples are prepared and spread plated onto pre-poured agar plates. Food products having a water activity of ($a_w > 0.95$) are spread plated onto Dichloran Rose Bengal Chloramphenicol agar (DRBC) and incubated for 5 days at 25 °C. Food products having a water activity of ($a_w < 0.95$) are spread plated onto Dichloran glycerol agar plates (DGA) and incubated for a period of 5-7 days at 25 °C.</p>		
Reporting Unit	Yeasts and/or Moulds cfu/g or mL		
LOR/LOQ	<100 cfu/g		

Minimum amount of sample required for analysis	20 g	Turnaround time	5 days (DRBC) 7 days (DGA)
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