

## METHOD SUMMARY – QWI-FM0052

<b>Method Title</b>	Enumeration of Spoilage Organisms in Acidic Products		
<b>Document number</b>	<b>QWI-FM0052</b>	<b>Date Issued</b>	14 <sup>th</sup> November 2017

Method External References	Oxoid Manual - Orange Serum Agar		
	HIMEDIA – Orange Serum Agar		
Matrix	As listed on NATA Scope.		
ALS Department	<input type="checkbox"/> Pharmaceutical Chemistry <input type="checkbox"/> Water Microbiology <input type="checkbox"/> Pharmaceutical Microbiology <span style="float: right;"> <input checked="" type="checkbox"/> Food Microbiology  <input type="checkbox"/> Food Chemistry         </span>		
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 checked="" 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 specifically for enumeration of spoilage organisms (e.g. aciduric organisms) from products with a pH &lt;5.5. This includes citrus and non-citrus based products such as beverages, concentrates i.e tomato paste and other acidic food products.</p> <p>1 mL or representative gram of sample is added into a sterile petri dish. Approximately 20 mL of cooled media (Orange Serum Agar) (46-48 °C but not more than 48 °C) is added to each plate. The plates are incubated at 30 °C for 7 days aerobically.</p> <p>The number of colony forming units per mL or gram of test material is reported.</p> <p>Alternatively, a quantity of liquid sample is filtered and placed onto a pre-poured of Orange Serum Agar and incubated under the same conditions, then enumerated.</p>		
Reporting Unit	bacteria, yeasts and/or moulds cfu/g or mL or per volume filtered.		
LOR/LOQ	<1		

Minimum amount of sample required for analysis	10 g or 10 mL	Turnaround time	7 days
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<b>Author:</b>	Document Controller	<b>Date:</b>	5 <sup>th</sup> December 2017
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