## Spore Methods Project June 2019 Milk Quality Improvement Program Department of Food Science Cornell University

## Materials

□ Plate Interpretation Guide□ Powder Testing Results Template

	Plate Count Milk Agar (PCMA) plates x 80 (6 for each powder + 20 extra)
	Tryptic Soy Agar (TSA) + 1% Starch Agar plates x 80 (6 for each powder + 20 extra)
	$250\ \text{mL}$ glass bottles with screw on cap containing 180 mL phosphate buffer x 12 (1 for each
	powder + 2 extra)
	50 g samples of milk powders A-J (total of 10 powders)
	Modified pressure cooker
	Dual input thermometer (probes attached to pressure cooker lid)
	Induction hot plate
	Sterile 50 mL glass tubes with screw on cap x 40 (1 for each powder/test combination + 3
	temperature control + 7 extra)
	Rack for glass tubes
	Sterile disposable plastic spreaders x 40 (1 for each powder/test combination + 10 extra)
SOPs	
	Spore Pasteurization
	Highly Heat Resistant Spore Pasteurization
	Specially Thermoresistant Spore Enumeration
	Specially Thermoresistant Spore Enumeration (Video)
	<ul> <li>Link to video: <a href="https://vimeo.com/296731234">https://vimeo.com/296731234</a></li> </ul>
	<ul> <li>Password: sporemethods2018</li> </ul>
Project Documentation	
_	Phase III Flow Chart
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