Microbiological Methods Status

Number	Title	Last Updated	Action Needed
Mesophilic Aerobic Bacteria			
I-A	Standard Plate Count	10-10-06	
I-B	Membrane Filter Method	10-10-06	**Reference?**
Mesophilic Yeast and Moldsee Gordon's notes below/end (where to insert?)***			
II-A	Standard Plate Count	10-10-06	Verified incubation time and temp (Gordon)
II-B	Membrane Filter Method	10-10-06	Verified incubation time and temp; **AOAC reference?**
Osmophilic Yeast, Mold and Bacteria			
III-A	Standard Plate Count	10-10-06	Verified incubation time and temp
III-B	Membrane Filter	10-10-06	Verified incubation time and temp
Coliform Group of Bacteria			
IV-A	Standard Plate Count Method	10-10-06	**Note 2 (Bob)?**
IV-B	Most Probable Number Method	10-10-06	
IV-C	Membrane Filter Method	10-10-06	
IV-D	Culture Method	10-10-06	
Salmonella Species			
V-A	Presumptive Test	10-10-06	**Iodine strength (Colonius)**
Thermophilic Spore-Forming Bacteria			
VI-A	Anaerobic Thermophilic Spores; Non-H_2S Producing	10-10-06	**What about companies using fungicide on seeds? What are the Europeans doing in this regard? (Bob)**
VI-B	Anaerobic Thermophilic Spores; H_2S Producing	10-10-06	
VI-C	Aerobic Thermophilic Spores	10-10-06	
Coagulase Positive Staphylococci			
VII-A	Culture Method	10-10-06	**B-P 2-5mm (Deb)**
VII-B	Spread Plate Method	10-10-06	
Anaerobic Bacteria			
VIII-A	Clostridium Perfringens, Plate Count	10-10-06	**Gas Pak issues? (Wellington)**
VIII-B	Mesophilic, Pour Plate Method	10-10-06	

Number	Title	Last Updated	Action Needed
Pseudomonas Species			
IX-A	Spread Plate Method	10-10-06	
IX-B	Membrane Filter Method	10-10-06	
IX-C	Culture Method	10-10-06	
Bacillus Cereus Count			
X-A	Spread Plate Method	1-28-98	
Mesophilic Aerobic Spore-Formers			
XI-A	Pour Plate Method	1-28-98	
Rapid Microbiological Methods			
XII-A	Colorimetric Polyclonal Immunoassay	1-22-99	
XII-B	Immunodiffusion Screening Method *Salmonella* Species	1-22-99	
XII-C	*Salmonella* Species (Biochemical Identification Method)	1-22-99	
XII-D	*Escherichia Coli* and Other Enterobacteriaceae (Biochemical Identification Method)	1-22-99	
XII-E	Mesophilic Aerobic Bacteria (Petrifilm Aerobic Count Plate Method)		**Editing changes must be accepted for method approval and posting**
XII-F	Mesophilic Yeast And Mold (Petrifilm Yeast And Mold Count Plate Method)		**Editing changes must be accepted for method approval and posting**
XII-G	Coliform Group Of Bacteria (Petrifilm Coliform Count Method)		**Editing changes must be accepted for method approval and posting**

***** Antibiotic Media for Yeast/Mold and Plate Orientation**

The most commonly prescribed agar is DRBC – Dichloran Rose Bengal Chloramphenicol Agar (100mg/L chloramphenicol) – with the dichloran and rose bengal to inhibit spreading of mold colonies. The other commonly used antibiotic is 50mg/L Chlortetracycline, aka aureomycin. With regard to incubated plates, Lincoln was right. Surface type methods (spread plate and membrane filtration) use upright plates, while pour plate methods use inverted plates.

FDA's BAM – DRBC spread plate (upright)

Compendium – DRBC spread plate or membrane filter for beverages (upright)

Difco Manual – DRBC spread plate (upright)

Standard Methods – spread plate (upright) and pour plate (inverted)