Flat sour spoilage:

55c° incub. 3-7 days.

Thermophilic anaerobic spoilage:

10<sup>-1</sup> <u>1ml</u> Dextrose trypton agar PE2 + <u>Wax</u> 55c° <u>incub</u> 3-7 days. Bromocresol purple <u>37c°</u>

Sulphatid spoilage:

10<sup>-1</sup> <u>1ml</u> Thioglycolate agar + <u>Wax</u> 55c° <u>incub</u> 3-7 days. Nail Swell spoilage:

10<sup>-1</sup> <u>1ml</u> Glucose broth + <u>Wax</u> 37c<sup>o</sup> <u>incub</u> 3-7 days. phenol red

Butyric anaerobic:

10<sup>-1</sup> <u>1ml</u> Dextrose trypton agar PE2 <u>37c</u> 3-7 days.

Aciduric thermophilic:

10<sup>-1</sup> <u>1ml</u> Tryptone glucose agar + ---> 55c° ---> 2 days. Bromocresol PH=5

Yeast:

10<sup>-1</sup> \_\_\_\_ VEA + Bromocresol PH=5  $\longrightarrow$  25-30c°  $\longrightarrow$  3-7 days.

Mold:

10<sup>-1</sup> water bath  $80c^{\circ}/15min \longrightarrow cool \longrightarrow YEA \longrightarrow 25$ -30/ 3-7 days.

Spoilage type	PH	Example	Group of micro.	Manifestation
Thermophlic Flat sour	5.3≥	Corn , Peas	Bacillus Sterothermophilum	Can flat , Product appearance may have slightly abnormal odor , sometimes cloudy liquor
Thermophilic anaerobic sp.	4.8≥	Spinach , Corn	Clostridium Saccharolyticum	Can swell , product appearance fermented , sour , Cheesy odor
Sulphid sp.	5.3≥	Corn , Peas	Clostridium ngrificanse	Can flat , H <sub>2</sub> S gas absorbed by product
Mesophilic Swell sp.	4.8≥	Corn	Clostridium botulinum	Can swell, product may be partially digested
Butyric anaerobic	4.0≥	Tomatos , Peas	Clostridium pasturanium	Can swell, product fermented butyric odor
Aciduric thermophilic	4.2 ≥	Tomato juice	Bacillus coagulans	
Yeast	3.7 ≤		Saccharomyces	
Mold	3.7 ≤	Fruits	Byssochlamys fulva	