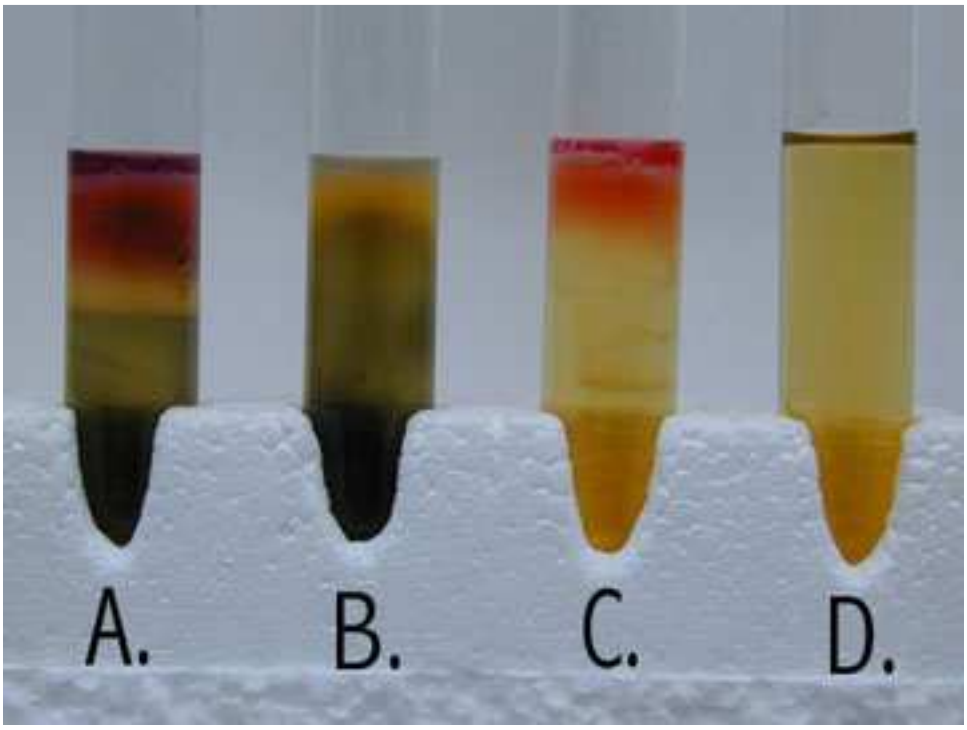
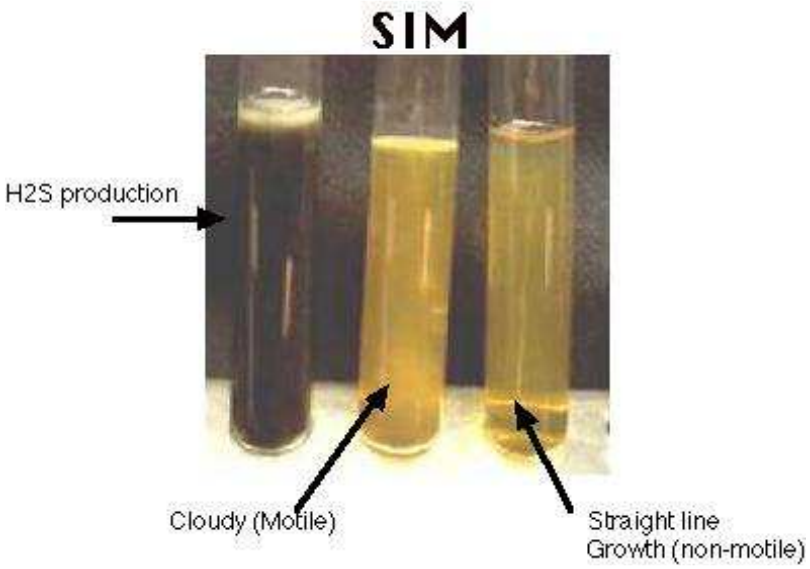
Exercise #21. SIM Agar. Determine H_2S, indole production and motility. p. 54

Day 1 Mon 7/20/09	**Procedure:** • work in groups of 4 • stab inoculate 7 SIM agar tubes o 3 known controls o 4 unknowns (1 for each person in your group) • INCUBATE: 37°C; 48 hours	**Organisms:** **Controls:** 1. *E. coli* 2. *P. vulgaris* 3. *K. pneumoniae* **Your unknowns:**
Day 2 Wed 7/22/09	**Results:** • observe tubes • H_2S o presence of black precipitate • Motility, examine stab line o if not motile, cells will not leave line o if motile, cells will move off line • Indole o add Kovacs reagent to each tube o if indole present, it will move up into the Kovacs reagent o cherry red color will form • record your results on p. 31-2. 55 • answer questions • refer to dichotomous key on p 33-34	NOTE: Record H_2S and motility BEFORE testing for indole




SIM
H2S production
Cloudy (Motile)
Straight line
Growth (non-motile)