

CATEGORY A SELECT AGENT SENTINEL LABORATORY EXERCISES

- View the images for each agent and answer the questions or describe what you see on the worksheet.
- Use the flow charts and tables to guide your answers to the questions on the worksheet.

TEST	Agent #1			Agent #2			Agent #3			Agent #4			Agent #5			Agent #6			Agent #7			Agent #8		
Specimen source	Blood			Blood			Blood			CSF			Blood			Blood			Blood			Blood		
Gram stain/cellular morphology										Gram-negative coccobacillus						Gram-negative coccobacillus			Gram-negative rods					
Growth	SBA	CAP GR	MAC NG	SBA	CAP GR	MAC NG	SBA	CAP	MAC NG	SBA	CAP	MAC NG	SBA	CAP	MAC NG	SBA	CAP	MAC	SBA GR	CAP GR	MAC NF	SBA	CAP	MAC
Hemolysis on BAP	α	β	γ	α	β	γ	α	β	γ	α	β	γ	α	β	γ	α	β	γ	α	β	γ	α	β	γ
Motility							Negative			Negative														
Urea hydrolysis										Positive														
TSI agar slant																								
BHI broth growth																								
Oxidase										Positive														
Catalase										Positive														
X or V factor requirement							Negative																	
Capsule present?																								
Spores present?																								
What agent(s) <u>can</u> you rule out?																								
What agent(s) <u>can't</u> you rule out?																								

SBA = Sheep blood agar
 CAP = Chocolate agar plate
 MAC = MacConkey agar
 L- = Lactose negative

α = alpha
 β = beta
 γ = gamma

BHI = Brain heart infusion
 TSI = Triple sugar iron agar slant
 CSF = cerebral spinal fluid