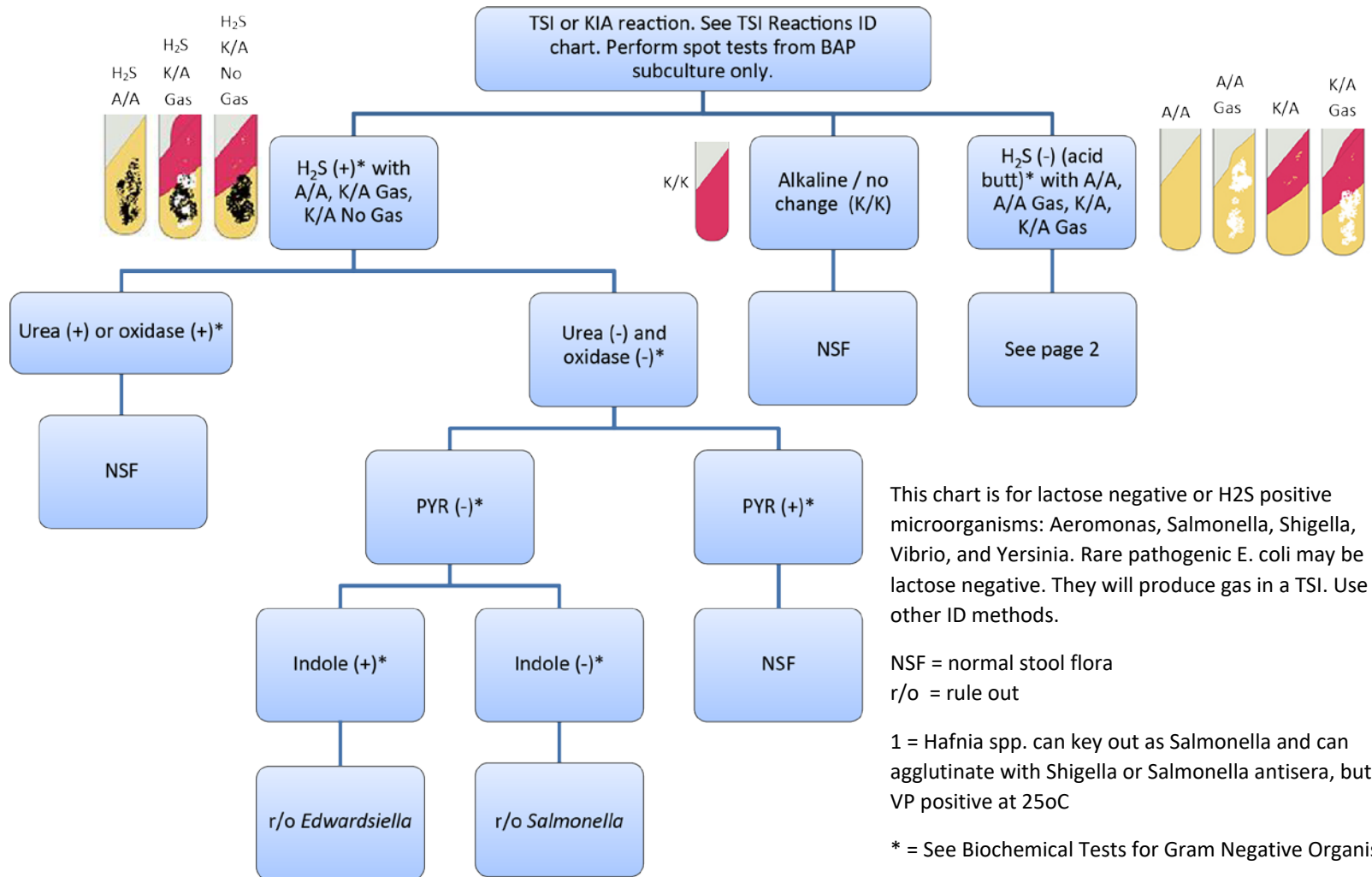


## GNR Stool Pathogens Lactose Negative Flowchart



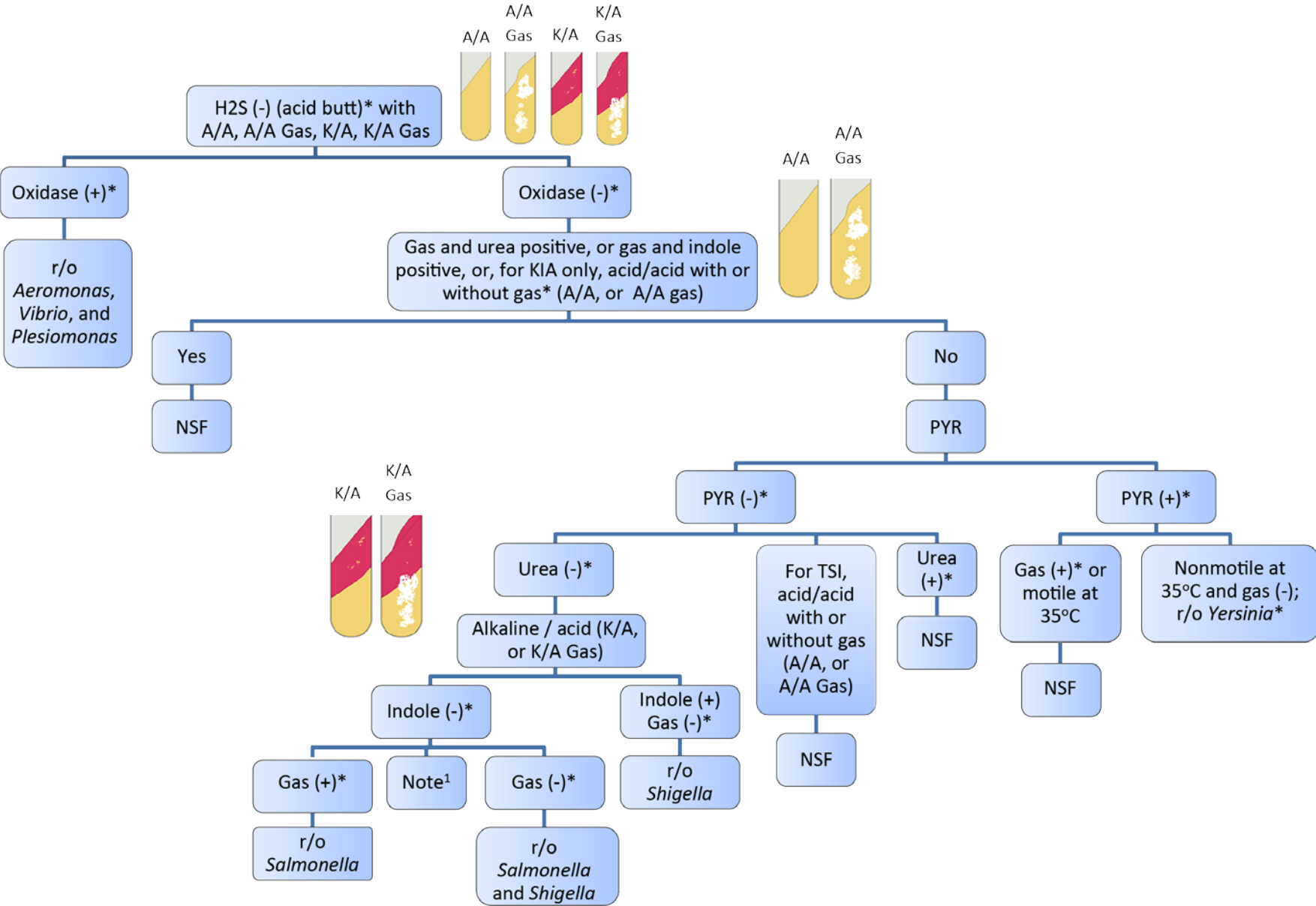
This chart is for lactose negative or H<sub>2</sub>S positive microorganisms: *Aeromonas*, *Salmonella*, *Shigella*, *Vibrio*, and *Yersinia*. Rare pathogenic *E. coli* may be lactose negative. They will produce gas in a TSI. Use other ID methods.

NSF = normal stool flora  
r/o = rule out

1 = *Hafnia* spp. can key out as *Salmonella* and can agglutinate with *Shigella* or *Salmonella* antisera, but it is VP positive at 25°C

\* = See Biochemical Tests for Gram Negative Organism

ID Job aid for positive and negative result reference.



This job aid is a component of the free, on-demand CDC training course “Biochemicals and Gram Negative Organism ID.” Find the course at <https://www.cdc.gov/labtraining>.