**Differentiation of Brucella from other urea-positive, oxidase-positive gram-negative coccobacillia**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ***Brucella***  **spp.** | ***Psychrobacter immobilis*** | ***Paracoccus yeei*** | ***Psychrobacter phenylpyruvicus*** | ***Methylobacterium***  **spp*.*** | ***Oligella ureolytica*a** | ***Bordetella bronchiseptica,***  ***B. hinzii, Cupriavidus pauculus*** | ***Hemophilus***  **spp. b** |
| Gram stain morphology | tiny ccb, stains faintly | ccb, rods | cocci in packets | ccb, rods, retains crystal violet | Vacuolated rods | tiny ccb | rods | Tiny ccb |
| Catalase | + | + | + | + | + | + | + | v |
| Oxidase | + | + | + | + | + | + | + | v |
| Urea | + | v | + | + | v | + | + | v |
| Motility | - | - | - | - | - | +, delayed | + | - |
| BAP  distinctions | - | Prefers 20°C, Odor of roses | Mucoid | - | Pink, mucoid | - | - | No growthb |
| MAC-48 h | - | - | - | - | - | - | + | - |

a Reactions extracted from ASM Sentinel Protocols for *Brucella* spp. and *F. tularemia*; NA, not applicable; v, variable; ccb, coocbacilli. *O. ureolytica* is primarily a uropathogen.

b Only grows on CHOC (requires X & V); or on BAP associated with staphylococcus colony (satellite test).