

This organism has a capsule, which has anti-phagocytic properties.

Positive Quellung Reaction

Positive Quail-lungs

A Quellung reaction is a biochemical reaction in which antibodies bind to a bacterial capsule, allowing species with a positive Quellung reaction to be visualized under a microscope. *Streptococcus pneumoniae* has a positive Quellung reaction.

IgA Protease

(IgA) Apple-goblin with Propeller-ace

An IgA protease is an enzyme that cleaves certain amino acid sequences of proteins, including immunoglobulin A. *Streptococcus pneumoniae* releases IgA proteases which destroy IgA, leading to increased pathogenicity. Other IgA protease producers include *Neisseria gonorrhoeae*, *Neisseria meningitidis*, and *Haemophilus influenzae* type B.