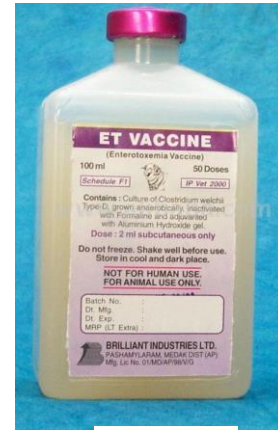


Current commercial veterinary ϵ -toxin vaccines

- **Formaldehyde-treated bacterial culture filtrates (toxoids)**
 - production requires the growth of *Clostridium perfringens*
 - contain proteins in addition to the Etx toxoid
 - yield of vaccine can be low & variable
 - immunogenicity low & variable
 - typical immunisation regimens involve an initial course of two doses of vaccine, 2-6 weeks apart
 - sheep are boosted at 6-12 months
 - goats are boosted every 3-4 months
 - inflammatory responses
 - reduced feed consumption



TETRANOLL



DOLLITOX-jel

