

Title (en)
MULTIVALENT VACCINE FOR (CLOSTRIDIUM BOTULINUM) NEUROTOXIN

Title (de)
MULTIVALENTER IMPFSTOFF GEGEN CLOSTRIDIUM BOTULINUM NEUTOTOXIN

Title (fr)
VACCIN POLYVALENT CONTRE LA NEUROTOXINE DU (CLOSTRIDIUM BOTILINUM)

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Abstract (en)
[origin: WO9808540A1] The present invention includes recombinant proteins derived from Clostridium botulinum toxins. In particular, soluble recombinant Clostridium botulinum type A, type B and type E toxin proteins are provided. Methods which allow for the isolation of recombinant proteins free of significant endotoxin contamination are provided. The soluble, endotoxin-free recombinant proteins are used as immunogens for the production of vaccines and antitoxins. These vaccines and antitoxins are useful in the treatment of humans and other animals at risk of intoxication with clostridial toxin.

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