

Diphtheria Antitoxin (equine)

Revision Date: April 17, 2014

Please consult the Product Leaflet¹ for further information about this product.

Manufacturer	VINS Bioproducts Limited, India
Authorization and access	<p>Special authorization and access procedures must be followed.</p> <ul style="list-style-type: none"> The Office of the Chief Medical Officer of Health (OCMOH) must be notified by the fastest means possible of all cases in which diphtheria antitoxin is required Available on a 24-hour basis from Alberta Health by calling OCMOH pager: 780-638-3630. A Special Access Program (SAP) Form is included with the product and must be completed and returned to Alberta Health. <p>Note: Diphtheria Antitoxin (equine) is stocked in the Provincial Vaccine Depot.</p>
Indications for use of diphtheria antitoxin serum	<p>Treatment of suspected (based on clinical symptoms) or confirmed disease. Bacteriologic confirmation is not required to initiate treatment.¹</p> <p>Note: Not recommended for prophylaxis of close, unimmunized contacts of diphtheria cases.^{1,2}</p> <p>For further information about the disease and reporting requirements refer to: <i>Public Health Notifiable Disease Management Guidelines – Diphtheria</i>.³</p>
Dose	<p>The therapeutic dose is determined by the severity of the disease.¹</p> <p>Follow the dosage as outlined on the Product Leaflet.</p> <p>This is a treatment product administered under the direction of a physician in an acute care setting.</p> <p>Note: Diphtheria antitoxin is supplied in 10 mL vials containing 10,000 IU each. For example the product leaflet recommends 10,000 – 30,000 IU for mild to moderately severe cases and up to a maximum of 100,000 IU for severe cases.¹</p>
Route	Refer to the Product Leaflet.
Schedule	<ul style="list-style-type: none"> Diphtheria antitoxin serum should be administered as soon as possible after clinical diagnosis. Treatment should not await laboratory confirmation of toxigenic <i>C. diphtheriae</i>. Skin testing for serum hypersensitivity should be carried out before diphtheria antitoxin is administered.^{1,2} <p>Refer to the product information and Annex A and B of <i>Public Health Notifiable Disease Management Guidelines – Diphtheria</i>.³</p> <p>Note: Individuals who have recovered from diphtheria should receive the age-appropriate diphtheria-containing vaccine. The vaccine should be administered three to four weeks after diphtheria antitoxin was administered to minimize antigen-antibody antagonism.⁵ Diphtheria does not necessarily confer immunity.^{2,4}</p>
Pregnancy	Pregnancy is not a contraindication to the use of diphtheria antitoxin serum. Intact IgG crosses the placenta from maternal circulation increasingly after 30 weeks. ⁵
Lactation	Breastfeeding is not a contraindication to diphtheria antitoxin serum. It is not known if antitoxin antibodies are excreted into breast milk. ⁵

References

- ¹ VINS BIOPRODUCTS Limited. Diphtheria Antitoxin I.P./B.P. *Product Leaflet*.
- ² National Advisory Committee on Immunization. (2013). *Canadian Immunization Guide* (Evergreen ed.). Ottawa, ON: Public Health Agency of Canada. www.canada.ca/en/public-health/services/canadian-immunization-guide.html.
- ³ Alberta Health and Wellness. Diphtheria. In *Public Health Notifiable Disease Management Guidelines*. www.health.alberta.ca/professionals/notifiable-diseases-guide.html
- ⁴ American Academy of Pediatrics. (2012). *Red Book: 2012 Report of the Committee on Infectious Diseases* (29th ed.). Elk It Grove Village, IL: Author.
- ⁵ Grabenstein, J. D. (2012). *ImmunoFacts: Vaccines and Immunologic Drugs - 2013*. St. Louis, MO: Wolters Kluwer Health.