

## Table of Biological Toxins

This table focuses on biological toxins that are subject to federal regulations and is by no means comprehensive of all biological toxins.

Table of Biological Toxins Toxin	LD50 (ug/kg)	Requires IBC Review	Select Agent	Export Compliance
<b>Abrin</b>	0.7	Y	Y (100 mg)	Y
<b>Aerolysin</b>	7			
<b>Aflatoxins</b>				Y
<b>β-bungarotoxin</b>	14			
<b>Botulinum toxins</b>	0.0004 to 0.0025	Y	Y (0.5 mg)	Y
<b>Caeruleotoxin</b>	53			
<b>Cereolysin</b>	40 to 80			
<b>Cholera toxin</b>	250			Y
<b>Clostridium difficile</b>	0.5 to 220			
<b>Clostridium perfringens</b>	0.1 to 1500	Y		Y
<b>Conotoxins</b>	12 to 30	Y	α-conotoxins only, (100 mg)	Y
<b>Crotoxin</b>	12 to 30			
<b>Diacetoxyscripenol toxin</b>		Y	Y (1000 mg)	Y
<b>Diphtheria toxin</b>	0.1	Y		
<b>HT-2 toxin</b>	5 to 10			Y
<b>Listeria listeriolysin or hemolysin</b>	3 to 10			
<b>Leucocidin</b>	50			
<b>Microcystin (Cyanginosin)</b>				Y
<b>Modeccin toxin</b>	1 to 10			Y
<b>Nematocyst toxins</b>	33 to 70			
<b>Notexin</b>	25			
<b>Pertussis toxin</b>	15			
<b>Pneumolysin</b>	1.5			
<b>Pseudomonas aeruginosa exotoxin A</b>	3			
<b>Ricin</b>	2.7	Y	Y (100 mg)	Y
<b>Saxitoxin</b>	8	Y	Y (100 mg)	Y
<b>Shiga Toxin</b>	20			Y
<b>Shigella dysenteriae neurotoxin</b>	1.3			
<b>Staphylococcal aureus toxins</b>	2 to 25	Y	Subtypes A -E (5 mg)	Y
<b>Streptolysin S</b>	25			
<b>Taipoxin</b>	2			
<b>Tetanus toxin</b>	0.001	Y		
<b>T-2 toxin</b>	5 to 10	Y	Y (1000 mg)	Y
<b>Tetrodotoxin</b>	8	Y	Y (100 mg)	Y
<b>Verotoxin</b>				Y
<b>Viscum Album lectin 1 (Vixumin)</b>	2.4 to 80			Y
<b>Volkensin toxin</b>	1.4			Y
<b>Yersinia pestis murine toxin</b>	10			