

## Toxins and Known LD<sub>50</sub> Values

Toxin	Species (if other than mouse)	Route (if other than IP)	LD <sub>50</sub> (ng/kg)
Abrin			20,000
Abrin reconstituted (A+B Mix)			6,000
Abrin A			10,000
Abrin B			25,000
Abrin C			16,000
Abrin D			31,000
Aflatoxin	Monkey	Oral Intramusc	1,750,000 2,020,000
Aflatoxin B/Aflatoxin B1			9,500,000
Aflatoxin B1 mixed with G1			680,000
Aflatoxin B2/dihydro B1	Duck	Oral	1,700,000
Aflatoxin G1	Rat Duck	IP Oral	14,900,000 785,000
Aflatoxin G2/dihydro G1	Duck	Oral	2,450,000
Aflatoxin M1/4-hydroxy B1	Duck	Unreported	320,000
Aflatoxin M2/4-hydroxy B2	Duck	Unreported	281,000
Aflatoxin P1			150,000,000
Aflatoxin 485 Q1, Ro, Ro' and Aflatoxin B1 dichlorides, oxides, epoxides			No data available
β toxin			No data available
Coagulase			No data available
<i>Clostridium botulinum</i> ("natural product")			0.03
<i>C. botulinum</i> neurotoxin			0.2
<i>C. botulinum</i> toxin A			MLD 1.2
<i>C. botulinum</i> toxin B			1.2 – 2.0
<i>C. botulinum</i> toxin C1			1.1
<i>C. botulinum</i> toxin C2			1.2
<i>C. botulinum</i> toxin D			0.4
<i>C. botulinum</i> toxin E			1.1
<i>C. botulinum</i> toxin F			2.5
<i>Clostridium perfringens</i>			MLD 100
Conotoxins – GI, GIIIA, GIIIB, GIVA, MI, MVILA, SIA, SVIB			12,000 – 30,000
Diacetoxyscirpenol			7,839,000
Exfoliative toxins A, B			No data available
γ toxin			No data available
Pantovalentine leukocidin			No data available
Ricin/Ricine			2,000
Ricin A			5,000
Ricin A chain			No data available
Ricin B			35,000
Ricin C			17,500
Ricin D			0.248
Ricin D alanine-chain protein	Mouse	Unreported	300,000
Ricin D isoleucine-chain reduced	Mouse	Unreported	29,000
Ricin nitrogen		Inhalation	LC <sub>50</sub> 500,000
Ricin reduced			200,000
Ricin, total hydrolysate			4,100
Ricin toxin – Con A			41,500,000
Saxitoxin/Saxitoxin hydrate			8,000
Saxitoxin dihydrochloride/hydrochloride			8,000
Saxitoxin p-bromobenzenesulfonate			10,000
Shiga toxin			250
<i>Shigella shigae</i> neurotoxin			1,350
<i>Staphylococcus enterotoxins</i>			25,000 – 1,333,000
T-2 toxin			3,000,000
T-2 toxin tetraol			11,000,000
JT-2 hemisuccinate			7,500,000
Tetrodotoxin			8,000
Tetrodotoxin citrate, 2 hydroxy...	Rat	IV	8
Tetrodotoxin 4, 9-anhydro...		Oral IV	16,900,000 986,000
Tetrodotoxin 4, 9-anhydro, 8,9-diacetate			>50,000,000
Tetrodotoxin 4-amino-4-deoxy		Oral IV	26,100,000 477,000
Deoxytetrodotoxin		Oral IV	2,700,000 41,700,000
Ethoxytetrodotoxin			692,000
Methoxytetrodotoxin		Oral IV	12,700,000 322,000
Toxic Shock syndrome toxin	Rabbit	Subcut IV	2,000 20,000