

Appendix 1. Chemical structures of different fatty acids in castor oil (11).

Fatty acid composition	Molecular formular	Type of fatty acid	Number of bonds and position
Ricinoleic	C18H34O3	Monounsaturated	One, and at the 12th carbon
Oleic	C18H34O2	Monounsaturated	One, and at the 12th carbon
Palmitic	C16H32O2	Saturated	-
Stearic	C18H36O2	Saturated	-
Linolenic	C18H30O2	Unsaturated	Three, and at the 9th, 12th, and 15th carbon
Linoleic	C18H32O2	Polyunsaturated	Two, and at the 9th and 12th carbon