

COVID-19 VACCINES

Ingredients included in Pfizer-BioNTech and Moderna mRNA COVID-19 vaccines 6

Description	Pfizer-BioNTech COVID-19 vaccine	Moderna COVID-19 vaccine
mRNA	Nucleoside-modified mRNA encoding the viral spike (S) glycoprotein of SARS-CoV-2	Nucleoside-modified mRNA encoding the viral spike (S) glycoprotein of SARS-CoV-2
Lipids	2[(polyethylene glycol)-2000]-N,N-ditetradecylacetamide	Polyethylene glycol (PEG) 2000 dimyristoyl glycerol (DMG)
	1,2-distearoyl-sn-glycero-3-phosphocholine	1,2-distearoyl-sn-glycero-3-phosphocholine
	Cholesterol	Cholesterol
	(4-hydroxybutyl)azanediylbis(hexane-6,1-diyl)bis(2-hexyldecanoate)	SM-102 (proprietary to Moderna)
Salts, sugars, buffers	Potassium chloride	Tromethamine
	Monobasic potassium phosphate	Tromethamine hydrochloride
	Sodium chloride	Acetic acid
	Dibasic sodium phosphate dihydrate	Sodium acetate
	Sucrose	Sucrose

ARE NOT FDA APPROVED

- On 12/11/2020 the U.S. Food and Drug Administration (FDA) announced¹ they had issued an Emergency Use Authorization (EUA) **to permit the emergency use of the “unapproved product”**, Pfizer-BioNTech COVID-19 Vaccine.²
- On 12/18/2020 the U.S. Food and Drug Administration (FDA) announced³ they had issued an Emergency Use Authorization (EUA) **to permit the emergency use of the “unapproved product”**, Moderna COVID-19 Vaccine.⁴

Federal law requires recipients are informed: YOU have “the option to accept or refuse the EUA product”.⁵

¹ <https://www.prnewswire.com/news-releases/fda-takes-key-action-in-fight-against-covid-19-by-issuing-emergency-use-authorization-for-first-covid-19-vaccine-301191524.html>

² <https://www.fda.gov/media/144413/download>

³ <https://www.fda.gov/news-events/press-announcements/fda-takes-additional-action-fight-against-covid-19-issuing-emergency-use-authorization-second-covid>

⁴ <https://fda.gov/media/144637/download>

⁵ <https://www.fda.gov/regulatory-information/search-fda-guidance-documents/emergency-use-authorization-medical-products-and-related-authorities>