

## Vaccine Ingredients and Additional Resources

Description	Pfizer-BioNTech COVID-19 vaccine	Moderna COVID-19 vaccine
<b>mRNA</b>	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
<b>Lipids</b>	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)azanediyl)bis(hexane-6,1-diyl)bis(2-hexyldecanoate)	SM-102 (Proprietary to Moderna)
<b>Salts, sugars, buffers</b>	Potassium chloride	Tromethamine
	Monobasic potassium phosphate	Tromethamine hydrochloride
	Sodium chloride	Acetic acid
	Dibasic sodium phosphate dihydrate	Sodium acetate
	Sucrose	Sucrose

Note: Both the Pfizer-BioNTech and Moderna COVID-19 vaccines contain polyethylene glycol (PEG). PEG is a primary ingredient in osmotic laxatives and oral bowel preparations for colonoscopy procedures, an inactive ingredient or excipient in additional medications (including some injectable contraceptives and steroids), and is used in a process called pegylation to improve the therapeutic activity of some medications (including certain chemotherapeutics).<sup>1,2</sup> Neither of the Pfizer-BioNTech or Moderna COVID-19 vaccines contains preservatives.

For more detailed vaccine and vaccine allergy information, please visit one of these websites:

[CDC vaccine info and special populations including allergy](#)

[EAU Moderna COVID-19 vaccine](#)

[EUA Pfizer COVID-19 vaccine](#)

[CDC COVID vaccine anaphylaxis management](#)

[Medical Management of Vaccine Reactions](#)