

# COVID-19 vaccine ingredients



24 Feb 2021



# Vaccine ingredients: Pfizer / BioNTech

COVID-19  
HEALTH  
CHAMPIONS



## Ingredients

- ALC-0315 = (4-hydroxybutyl) azanediyl)bis (hexane-6,1-diyl)bis(2-hexyldecanoate)
- ALC-0159\* = 2-[(polyethylene glycol)-2000]-N,N-ditetradecylacetamide
- 1,2-Distearoyl-sn-glycero-3-phosphocholine
- Cholesterol
- potassium chloride
- potassium dihydrogen phosphate
- sodium chloride
- disodium hydrogen phosphate dehydrate
- sucrose
- water for injections

\*This vaccine contains polyethylene glycol/macrogol (PEG) as part of ALC-0159



# Vaccine ingredients: AstraZeneca / Oxford

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## Ingredients

- COVID 19 Vaccine (ChAdOx1-S\* recombinant)  $5 \times 10^{10}$  viral particles\*
- L-histidine
- L-histidine hydrochloride monohydrate
- magnesium chloride hexahydrate
- polysorbate 80
- ethanol
- sucrose
- sodium chloride
- disodium edetate dehydrate
- water for injections

\* Recombinant, replication-deficient chimpanzee adenovirus vector encoding the SARS CoV 2 Spike glycoprotein. Produced in genetically modified human embryonic kidney (HEK) 293 cells



# Vaccine ingredients: Moderna



## Ingredients

- Messenger ribonucleic acid (mRNA)
- Lipids (SM-102, polyethylene glycol [PEG] 2000 dimyristoyl glycerol [DMG])
- Cholesterol
- 1,2-distearoyl-sn-glycero-3-phosphocholine [DSPC])
- Tromethamine
- Tromethamine hydrochloride
- acetic acid
- sodium acetate
- sucrose

