

What
ingredients
are in the
Moderna
vaccine?



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**Moderna (Spikevax)
vaccine is made up of
active ingredient, lipids,
amino acids, salts, acetic
acids, sugars and waters.**



What is the **active ingredient**?



mRNA (messenger ribonucleic acid) is where a code for part of the genetic material for the virus is stored.

The mRNA will assist in teaching your own body how to **develop an immune response** to the COVID-19 virus.



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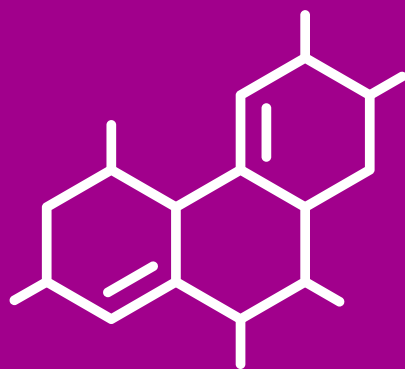
What is the **active ingredient**?

mRNA vaccines are quite new compared to other types of vaccines, but **have been in development for decades.**

Examples include flu (influenza), rabies and HIV (human immunodeficiency virus).



What do the **lipids** & **amino acids** do?



Lipids: are used to help the active ingredient to move into cells. They don't dissolve in water like fats, waxes and oils.



Amino Acids: are used to stabilise the vaccine and make sure it stays good when transported and stored.



What do salts and acetic acid do?



Salts: help balance out acidity so it is better stored and similar with the body tissue it is injected into.



Acetic acid: is what makes vinegar sour.



What do the **sugars** & **water** do?



Sugars: stop the molecules from losing their shape during the intense freezing process.



Water: most of the vaccines are made from water to make it easier to inject.



List of ingredients for the Moderna vaccine:

Active ingredients

One dose (0.5 mL) contains 100 micrograms of messenger RNA (mRNA) (embedded in SM-102 lipid nanoparticles).

Other ingredients (Excipients)

- Heptadecan-9-yl 8-[2-hydroxyethyl-(6-oxo-6-undecyloxyhexyl)amino]octanoate
- Cholesterol (Lipids)
- Distearoylphosphatidylcholine (Lipids)
- 1,2-dimyristoyl-rac-glycero-3-methoxypolyethylene glycol-2000 (Lipids)
- Trometamol (Amino Acids)
- Trometamol hydrochloride (Amino Acids)
- Acetic acid (Acetic acids)
- Sodium acetate trihydrate (Salts)
- Sucrose (Sugars)
- Water for injections (Waters)



For more information:

Therapeutic Goods Association (TGA)

- <https://www.tga.gov.au/covid-19-vaccine-information-consumers-and-health-professionals#ingredients>

Queensland Health

- <https://www.health.qld.gov.au/news-events/news/whats-really-in-a-covid-19-vaccine>





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