

Vaccine name

Affordability

Manufacturer



vaccine



Immune
Response

Quick Mechanism Summary

? Vaccine class

Quick description

Outline color indicates the availability of the data :

- published (peer-reviewed),
- **communicated** or
- **unavailable**

Broken down by variants for now:
US/UK = 'baseline' (D614G)
and B.1.1.7 ("UK variant")
vs B.1.351 ("South African variant")

⊕ **Efficacy** : **xx%** (US/UK strain)
 xx% (B.1.351 "SA" strain)

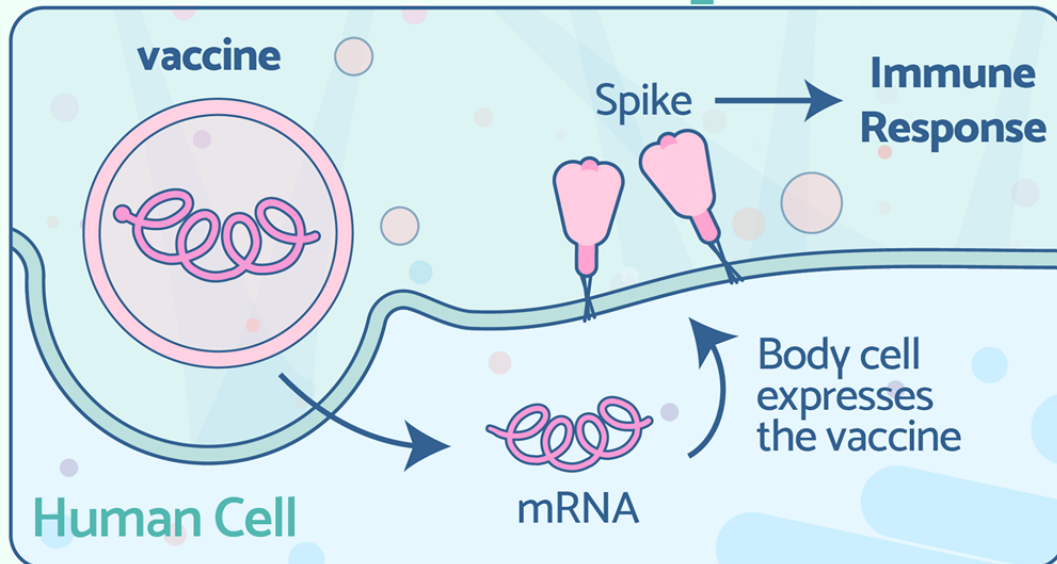
📅 **Dosing** : # of doses and how far apart

📦 **Storage** : conditions for storage of the vaccine

BNT162b2

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BioNTech/Pfizer 



🌀 Encapsulated mRNA Vaccine

mRNA encoding for the Spike protein is protected in a lipid nanoparticles (like soap bubbles). Once absorbed, the cell expresses the Spike protein resulting in an immune response.

⚙️ **Efficacy :** Phase III **95%** (US/UK strain)
 --% (B.1.351 "SA" strain)

💊 **Dosing :** 0.3mL - 2 doses - 21 days apart

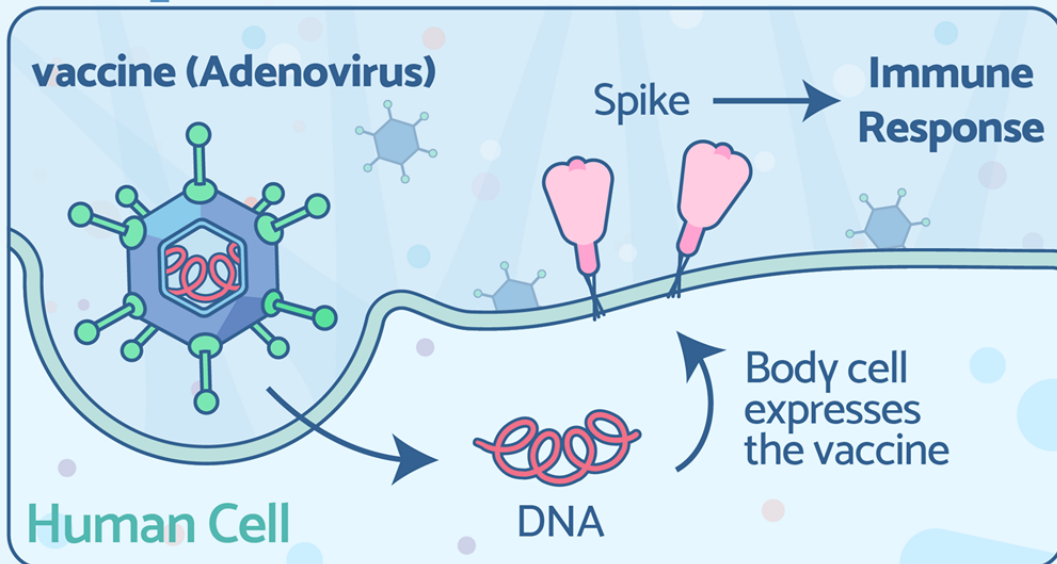
📦 **Storage :** **-70°C - 6 months**
+2-8°C - 5 days

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ChAdOx1 / AZD1222 (Covidshield)



Oxford/Astrazeneca



Viral Vector Vaccine

dsDNA encoding for the Spike protein is protected in a safe virus. The infected cell expresses the Spike protein which leads to an immune response.

⊕ **Efficacy :**  **82%** (US/UK strain)
 **10%** (B1.351 “SA” strain)

 **Dosing :** 2 doses - 12 days apart

 **Storage :** +2-8°C

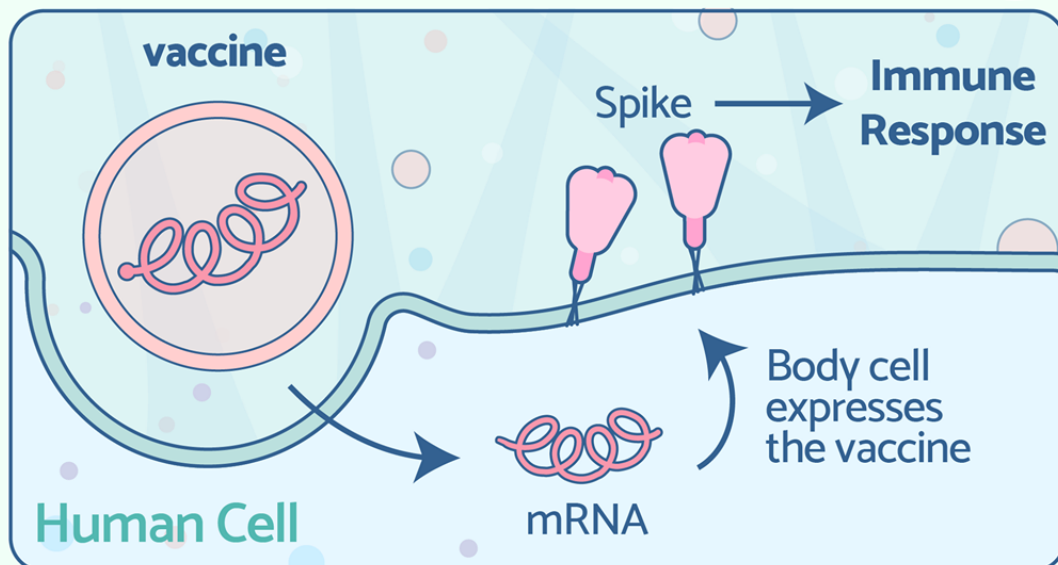
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mRNA-1273

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Moderna



🌀 Encapsulated mRNA Vaccine

mRNA encoding for the Spike protein is protected in a lipid nanoparticles (like soap bubbles). Once absorbed, the cell expresses the Spike protein resulting in an immune response.

⊕ **Efficacy :** Phase III **94.1%** (US/UK strain)
 --% (B1.351 "SA" strain)

💉 **Dosing :** 0.5mL - 2 doses - 28 days apart

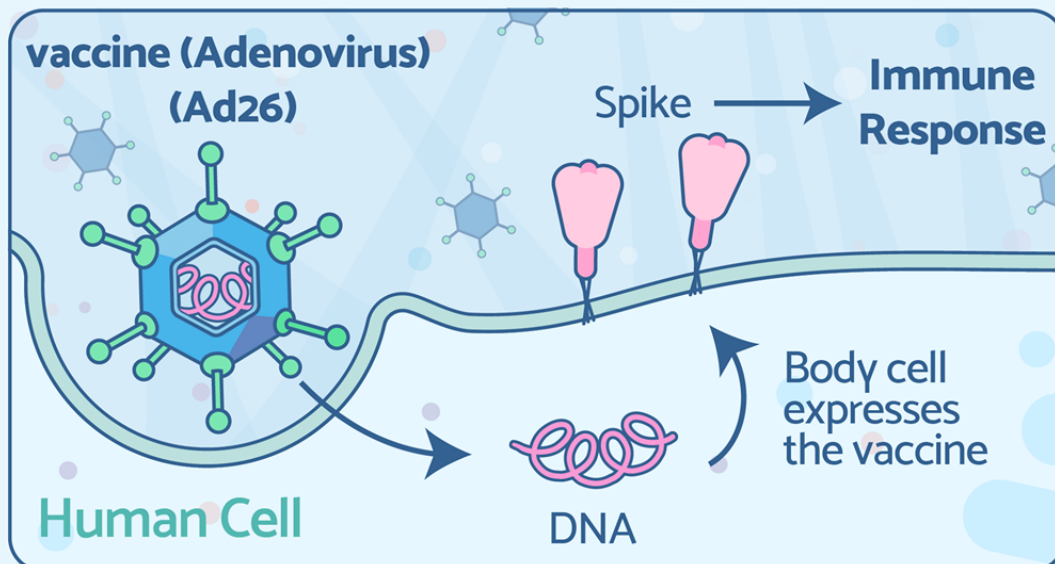
📦 **Storage :** **-20°C - 6 months**
+2-8°C - 30 days

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JNJ-78436735 / Ad26.COV2.S



Johnson & Johnson



Viral Vector Vaccine

dsDNA encoding for the Spike protein is protected in a safe virus. The infected cell expresses the Spike protein which leads to an immune response.

⊕ **Efficacy** : Phase III **72%** (US/UK strain)
Phase III **57%** (B.1.351 "SA" strain)

💊 **Dosing** : 1 dose

📦 **Storage** : +2-8°C for 3 months
-20°C for 2 years

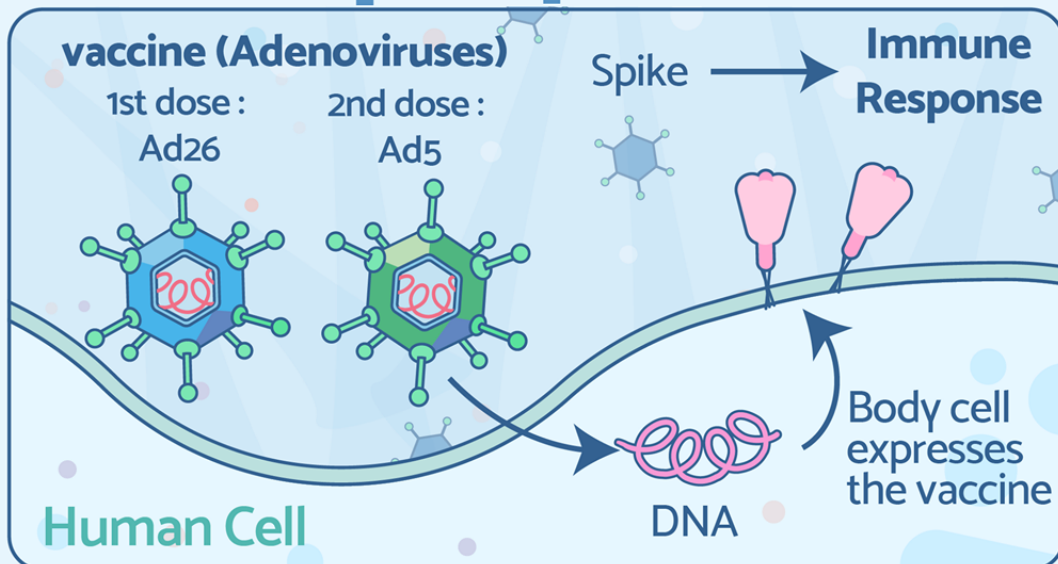
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Sputnik V / Gam-Covid-Vac



Gamaleya (Sputnik V)



Viral Vector Vaccine

dsDNA encoding for the Spike protein is protected in a safe virus. The infected cell expresses the Spike protein which leads to an immune response.

⊕ **Efficacy** :  **91%** (US/UK strain)
 **--%** (B1.351 "SA" strain)

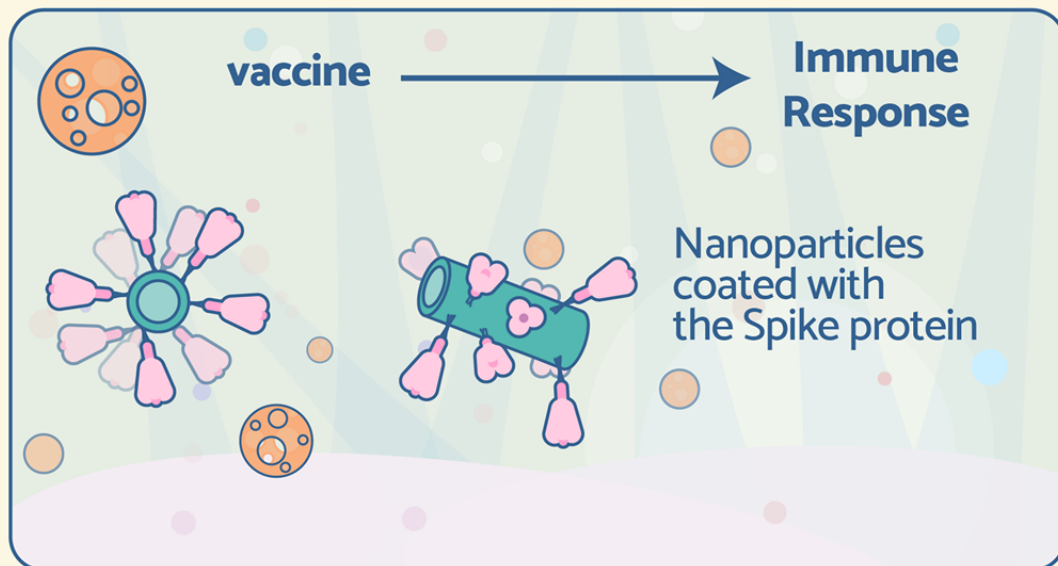
 **Dosing** : 0.5mL - 2 doses - 28 days apart

 **Storage** : +2-8°C for 3 months
-20°C for 2 years

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NVX-CoV2373

Novavax



Virus-like Particle Vaccine

Nanoparticles are coated with synthetic spike proteins. An additional element called adjuvant is added which allows to boost the immune reaction.

⊕ **Efficacy :** Phase III **89%** (US/UK strain)
Phase III **49%** (B1.351 “SA” strain)

💊 **Dosing :** 2 doses - 21 days apart

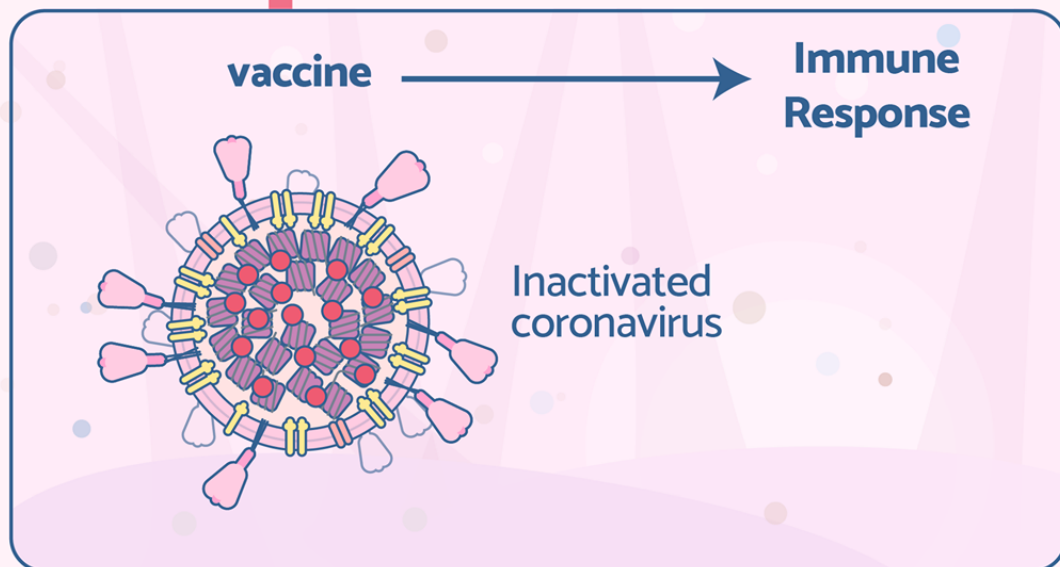
📦 **Storage :** +2-8°C for 3 months
-20°C for 2 years

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BBIBP-CorV

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Sinopharm



Inactivated Virus Vaccine

SARS-CoV2 is chemically inactivated (with a chemical called beta-propiolactone•) so it cannot replicate but all the proteins remain intact.

⊕ **Efficacy :**  **79%** (US/UK strain)
 **--%** (B1.351 “SA” strain)

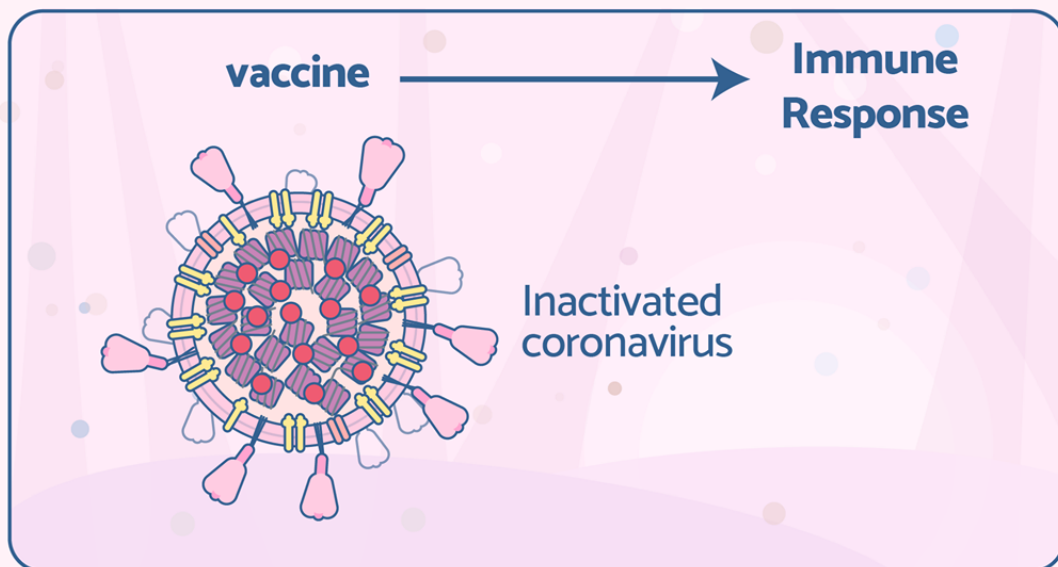
 **Dosing :** 2 doses - 3 weeks apart

 **Storage :** +2-8°C

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Last updated on 14/02/21

CoronaVac SinoVac

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Inactivated Virus Vaccine

SARS-CoV2 is chemically inactivated (with a chemical called beta-propiolactone•) so it cannot replicate but all the proteins remain intact.

⊕ **Efficacy :** Phase III **50%** (US/UK strain)
 --% (B1.351 “SA” strain)

💊 **Dosing :** 2 doses - 3 weeks apart

📦 **Storage :** +2-8°C