

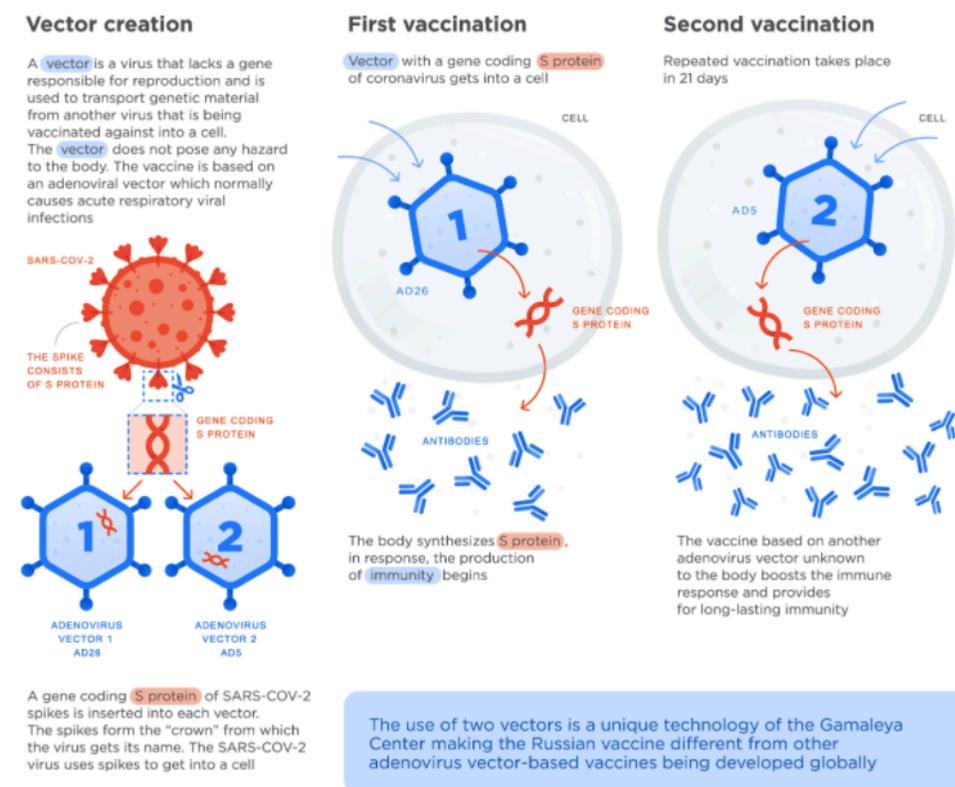
Specifications Sputnik V Vaccine

The COVID-19 vaccine Sputnik V (Gam-COVID-Vac) is an adenoviral-based, two-part vaccine against the SARS-CoV-2 coronavirus. Sputnik V uses a weakened virus to deliver small parts of a pathogen and stimulate an immune response.

The Sputnik V (Gam-COVID-Vac) vaccine reduces the time taken for the actual development of immunity to SARS-CoV-2, the virus behind the COVID-19 pandemic.

It is a vector vaccine based on adenovirus DNA, in which the SARS-CoV-2 coronavirus gene is integrated. Adenovirus is used as a “container” to deliver the coronavirus gene to cells and start the synthesis of the new coronavirus's envelope proteins, “introducing” the immune system to a potential enemy.

Sputnik V is a two-component vaccine in which adenovirus serotypes 5 and 26 are used. A fragment of tissue-type plasminogen activator is not used, and the antigen insert is an unmodified full-length S-protein. Sputnik V vaccine is produced with the HEK293 cell line.



Adenoviral Vaccines

Adenoviral vectors are considered extremely safe, and are some of the easiest to engineer. Vectors are viruses that have had the gene responsible for replication removed. Therefore, they no longer pose any threat of infection. Scientists use vectors to transport genetic material from a different virus -the one that is being vaccinated against -into a human cell. Adenoviruses, which are found in adenoids and regularly cause acute respiratory infections, have become the viruses that are most commonly used to engineer vectors. More than 350 scientific studies have been done and published in various sources around the world concerning the creation of adenovirus vectors.

Ingredients Sputnik V Vaccine

The active components are a modified replication-defective adenovirus of a different serotype (Serotype 26 for the first component and serotype 5 for the second), which has been modified to include the protein S-expressing gene of SARS-CoV-2.

The ingredients include:

Tris-(hydroxymethyl)-aminomethane

Sodium chloride

Sucrose

Magnesium chloride hexahydrate

Disodium EDTA dehydrate

Polysorbate 80

Ethanol

Water.

Note: The Sputnik V vaccine does not contain any components prohibited by Islam.

Side Effects

A comprehensive analysis of adverse events and side effects during clinical trials and over the course of mass vaccinations with the Sputnik V vaccine showed that there were no cases of cerebral venous sinus thrombosis.