

CureVac and Rentschler Biopharma Ramp up Manufacturing of COVID-19 Vaccine, CVnCoV



1

Vaccine R&D

A section of DNA carrying information, that helps the human body develop immunity against the virus, is generated. The process to produce the mRNA vaccine from this DNA template is established.



2

mRNA Production

The mRNA for the vaccine is produced from the template DNA via an enzymatic cell-free process. Each mRNA copy produced in this process contains the identical information.



3

API Purification

In the next step, the mRNA is separated from process- and product-related impurities, and then concentrated, to create the active pharmaceutical ingredient (API).



4

Formulation

Now, the mRNA is packed into lipid nanoparticles to (1) prevent degradation upon administration and (2) ensure targeted delivery to immune cells to develop immunity.



5

Fill & Finish*

The mRNA vaccine is filled into vials that are labelled and undergo a final quality control check before they are packaged for global distribution.

*This step is not performed by Rentschler Biopharma.