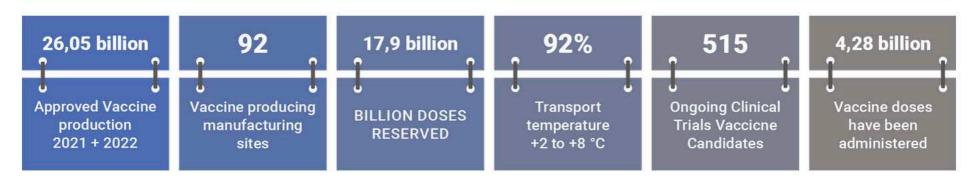






Issue 5 - December 2021



Last updated 25 Nov 2021 Source link

Welcome

Even though there has been a brief hiatus since our last edition of VACScene, we have taken time to prepare this issue to update you with the latest updates.

In the "Hot from the needle" section, we have identified a few key developments. While 2021 is coming to an end, the pandemic is yet to be behind us. The world is now challenged with the new Omicron COVID-19 variant. Currently, 3.2 billion people have been fully vaccinated and 4.2 billion have received at least 1 dose. The challenge remains to deliver the COVID-19 vaccines into hard-to-reach countries and remote regions of the world such as Sub-Saharan Africa, where vaccination coverage is still below 20% of the total population received at least one vaccine shot of which only 5,5% is fully vaccinated. On the other hand, based on World Health Organisation (WHO) statistics, the recorded number of deaths among the vaccinated population is much lower compared to the unvaccinated population. This underscores the importance of immunization to reduce the percentage of susceptible people. Governments are actively rolling out booster shot programs to ensure continued immunity, especially since the older population that was vaccinated early start to show lower immunity to the virus and that there are still risks of further mutations and newer variants.

In the above regard, effective COVID-19 vaccine production and supply chain movements will continue to be vital in 2022, and vaccine shipments will continue to be a very important part of the pharma airfreight industry. In the coming months, we expect more vaccines procurement deals to be concluded and that vaccines supplies would be ramped up, thereby achieving a wider coverage, and fast-tracking global vaccine timeline.

In addition, novel COVID-19 oral antiviral treatments have showed signed of progress and promising clinical trials results by major pharma manufacturers MSD and Pfizer.

We hope you continue to find the material contained within VACScene of value and we extend seasonal greeting and best wishes to all readers.

Frank Van Gelder & Glyn Hughes

Approved vaccine production and distribution 2021 + 2022

| Company name/logo | Vaccine name | Type platform | Production sites | Approved production | Signed deals | Doses | Approved countries |
|--|------------------------------------|---------------------------------|------------------|---------------------|---------------|-------|--------------------|
| AstraZeneca 🕏 | AZD1222 | Non Replicating Viral Vector | 16 | 2.100.000.000 | 3.237.665.000 | 2 | 125 |
| BIONTECH Pfizer | BNT162b2 | mRNA | 14 | 7.000.000.000 | 4.279.945.905 | 2 | 107 |
| moderna* | mRNA - 1273 | mRNA | 7 | 3.800.000.000 | 1.905.900.000 | 2 | 77 |
| SINOPHARM | BBIBP-CorV (Beijing) | Inactivated | 4 | 5.553.400.000 | 4.466.000.000 | 2 | 68 |
| THE GAMALEYA NATIONAL CENTER OF EPIDEMOLIOUY AND RICERBIOLOGY | Sputnik V | Non Replicating Viral Vector | 14 | 40.122.500 | 349.877.500 | 2 | 73 |
| & CanSinoBIO | Ad5-nCoV | Non Replicating Viral Vector | 4 | 1.000.000.000 | 146.700.000 | 2 | 9 |
| SERUM INSTITUTE OF INDIA PVT, LTD | Covishield | Non Replicating Viral Vector | 1 | 200.000.000 | 100.000.000 | 2 | 46 |
| BHARAT | Covaxin | Inactivated | 4 | 1.590.000.000 | 563.600.000 | 2 | 10 |
| Janssen 7 Johnson-Johnson | Ad26.COV2.S | Non Replicating Viral Vector | 8 | 1.000.000.000 | 894.600.000 | 1 | 78 |
| <pre>sinovac</pre> | Coronavac | Inactivated | 6 | 3.750.000.000 | 1.028.603.000 | 2 | 43 |
| SZFSW NSTITUTE OF MEDICAL BIOLOGY OF MEDICAL BIOLOGY | RBD-Dimer | Protein Subunit | 1 | 1.000.000 | 0 | 2 | 3 |
| ВЕКТОР | EpiVacCorona | Protein Subunit | 1 | 5.000.000 | 0 | 2 | 2 |
| BARCHANA KODOHABNAYOHAR | KoviVac | Inactivated | 1 | 3.000.000 | 0 | 2 | 1 |
| RIBSP Reserve venture for Beinger Valley Political | QazCovid-in | Inactivated | 1 | 4.000.000 | 0 | 2 | 2 |
| MINHAI 民海生物 MANAMENTE PROCESSE CO., LTD | SARS-CoV-2 Vaccine (Vero Cells) | Inactivated | 1 | 1.000.000 | 0 | 2 | 2 |
| Shafa Pharmed Pars | Covid-19 | Inactivated | ĭ | 1.000.000 | 0 | 2 | 1 |
| International Centre for Genetic Engineering and Biotechnology Developing Knowledge | CIGB-66 | Protein Subunit | 1 | 500.000 | 0 | 2 | 4 |
| THE GAMALEYA NATIONAL CENTER OF EPIDEMOLOGY AND PICCODIOLOGY | Sputnik Light | Non Replicating Viral Vector | 6 | 500.000 | 0 | 2 | 19 |
| MVC 高端疫苗生物製剤配份有限公司 MEDIGEN VACCINE BIOLOGICS CO | MVC-COV1901 | Protein Subunit | 1 | 500.000 | 0 | 2 | 1 |
| 255 | | | | | | | Source Link |

Source Link

Hot from the needle

Could oral antiviral pills be a game-changer for COVID-19?

Medical x press - Nov 22, 2021

Read the full article

Bloomberg News: EU recommends 9-month limit on Covid-19 vaccine validity for travel

Malay mail - Nov 25, 2021

Read the full article

WHO looking forward to oral, nasal Covid vaccines

RTE - Nov 9, 2021

Read the full article

Covid will continue to spread as people mix and travel : WHO

Healthworld - Nov 25, 2021

Read the full article

Russia gives permission to launch clinical trials of nasal spray COVID-19 vaccine

Post online - Nov 25, 2021

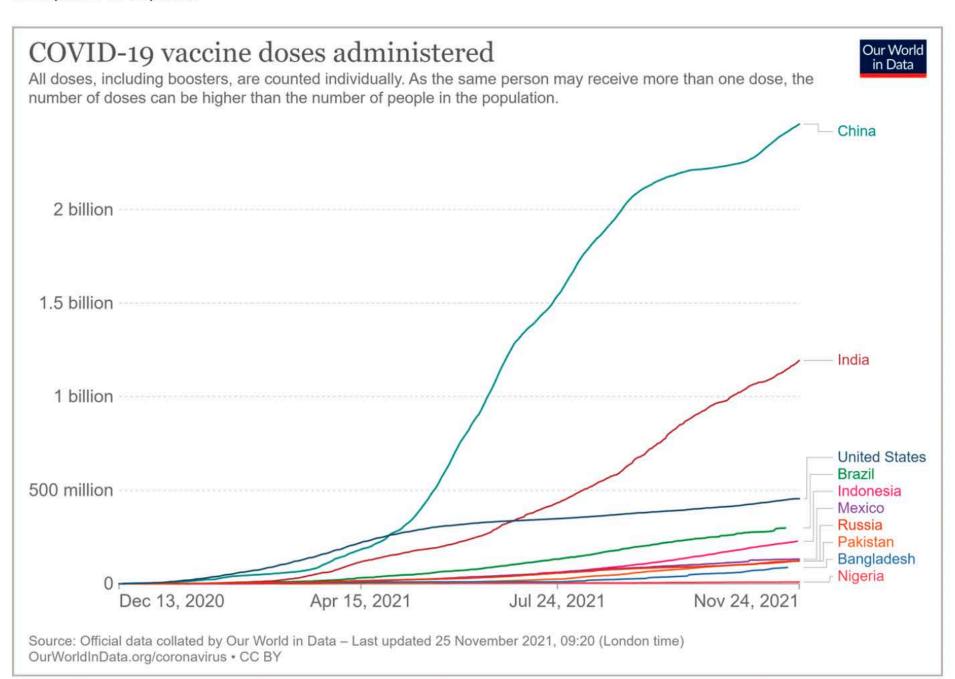
Read the full article

Vaccine clinical trial updates

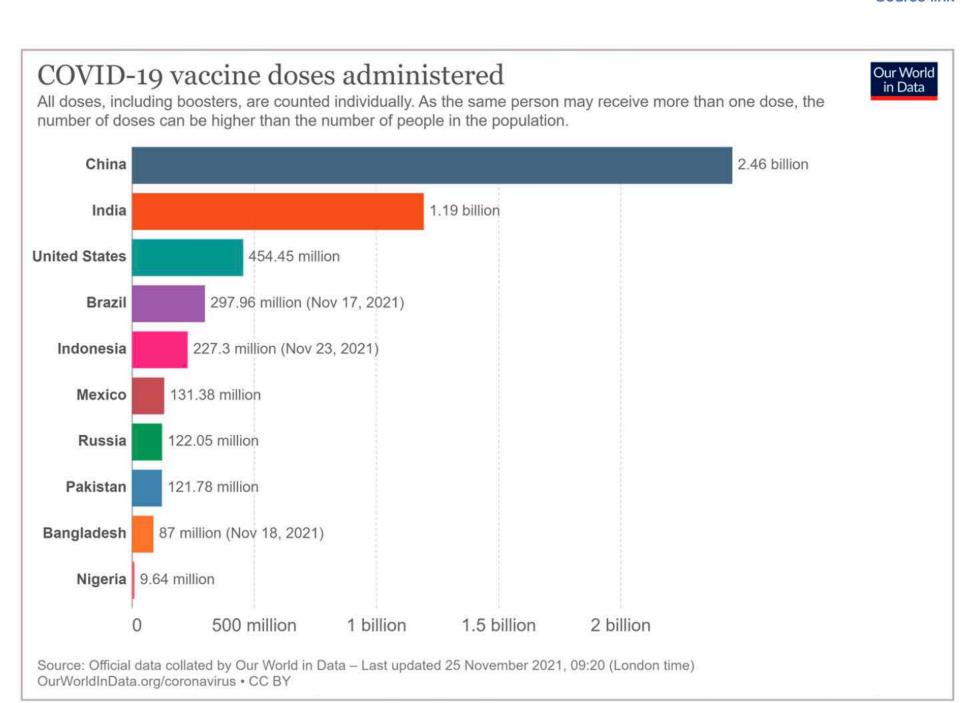
| FINLAY-FR-1 | Recombinant Protein | UB-612 | FINLAY-FR-2 | NVX-CoV2373 | Nanocovax |
|--|--|--|---|------------------------------|--|
| Instituto Finlay de Vacunas Cuba | Sonofi/GSK | COVAXX | Instituto Finlay de Vacunas Cuba | Novavax | Nanogen |
| 4 trials in 1 country | 4 trials in 2 countries | 4 trials in 1 country | 3 trials in 1 country | 5 trials in 6 countries | 3 trials in 1 country |
| | | Subunit | | | |
| Recombinant (Sf9 cell) | Razi Cov Pars | COVOVAX | SCTV01C | COVAX-19 | Recombinant (Sf9 cell) |
| West China Hospital | Razi Vaccine an Serum Research Institute | Serum institute of India | Sinocelltech | Vaccine/CinnaGen Co. | West China Hospital |
| 5 trials in 1 country | 3 trials in 1 country | 2 trials in 1 country | 3 trials in 0 countries | 4 trials in 1 country | 5 trials in 4 countries |
| Protein Subunit | | DNA | | VLP | , |
| GBP510 | INO-4800 | Zy <u>CoV</u> -D | ZyCoV-D | Plant-based VLP | |
| SK Bioscience Co Ltd | Inovio | AnGes | Genexine | Medicago | |
| 5 trials in 2 country | 6 trials in 7 countries | 6 trials in 1 country | 6 trials in 1 country | 3 trials in 2 countries | |
| | | | | | |
| | | RI | NA . | | |
| BNT162b1 | BNT162b2s01 | mRNA- <u>127</u> 3.617.2 | mRNA-1273.211 | mRNA | ARCT-154 |
| BNT162b1 Pfizer/BioNTech | BNT162b2s01 Pfizer/BioNTech | | gene , | mRNA Walvax | ARCT-154 Arcturus Therapeutics |
| | | mRNA-1273.617.2 | mRNA-1273.211 | | Arcturus Therapeutics |
| Pfizer/BioNTech 3 trials in 2 countries | Pfizer/BioNTech | mRNA-1273.617.2 Moderna | mRNA-1273.211 Moderna 2 trials in 1 country | Walvax | Arcturus Therapeutics |
| Pfizer/BioNTech 3 trials in 2 countries | Pfizer/BioNTech 3 trials in 1 country | mRNA-1273.617.2 Moderna 2 trials in 1 country | mRNA-1273.211 Moderna 2 trials in 1 country Viral Vector IIBR-100 | Walvax | Arcturus Therapeutics |
| Pfizer/BioNTech 3 trials in 2 countries Non Replicating | Pfizer/BioNTech 3 trials in 1 country | mRNA-1273.617.2 Moderna 2 trials in 1 country Replicating DelNS1-2019-nCov- | mRNA-1273.211 Moderna 2 trials in 1 country Viral Vector | Walvax | Arcturus Therapeutics |
| Pfizer/BioNTech 3 trials in 2 countries Non Replicatin GRAd-COV2 | Pfizer/BioNTech 3 trials in 1 country ng Viral Vector AZD2816 | mRNA-1273.617.2 Moderna 2 trials in 1 country Replicating DelNS1-2019-nCov- RBD-OPT | mRNA-1273.211 Moderna 2 trials in 1 country Viral Vector IIBR-100 Israel Institute for Biological Research | Walvax | Arcturus Therapeutics |
| Pfizer/BioNTech 3 trials in 2 countries Non Replicating GRAd-COV2 ReiThera | Pfizer/BioNTech 3 trials in 1 country The second of the s | mRNA-1273.617.2 Moderna 2 trials in 1 country Replicating DelNS1-2019-nCov- RBD-OPT Wantai | Moderna 2 trials in 1 country Viral Vector IIBR-100 Israel Institute for Biological Research (IIBR) 4 trials in 1 country | Walvax | Arcturus Therapeutics |
| Pfizer/BioNTech 3 trials in 2 countries Non Replicating GRAd-COV2 ReiThera | Pfizer/BioNTech 3 trials in 1 country The second of the s | mRNA-1273.617.2 Moderna 2 trials in 1 country Replicating DelNS1-2019-nCov- RBD-OPT Wantai 3 trials in 2 countries | Moderna 2 trials in 1 country Viral Vector IIBR-100 Israel Institute for Biological Research (IIBR) 4 trials in 1 country | Walvax | Arcturus Therapeutics |
| Pfizer/BioNTech 3 trials in 2 countries Non Replicating GRAd-COV2 ReiThera 5 trials in 12 countries Inactivated | Pfizer/BioNTech 3 trials in 1 country ng Viral Vector AZD2816 Oxford/AstraZeneca 2 trials in 2 countries | mRNA-1273.617.2 Moderna 2 trials in 1 country Replicating DelNS1-2019-nCov- RBD-OPT Wantai 3 trials in 2 countries Inacti | MRNA-1273.211 Moderna 2 trials in 1 country Viral Vector IIBR-100 Israel Institute for Biological Research (IIBR) 4 trials in 1 country | Walvax 4 trials in 1 country | Arcturus Therapeutics Inc 5 trials in 3 countries |

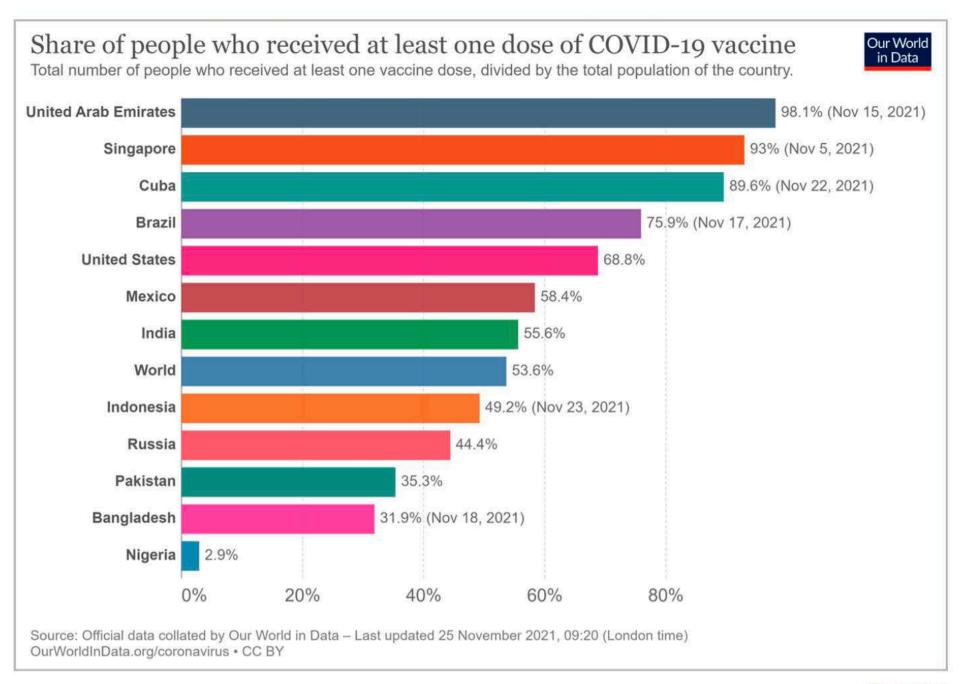
Global vaccine administration progress

Last updated 29 Sep 2021

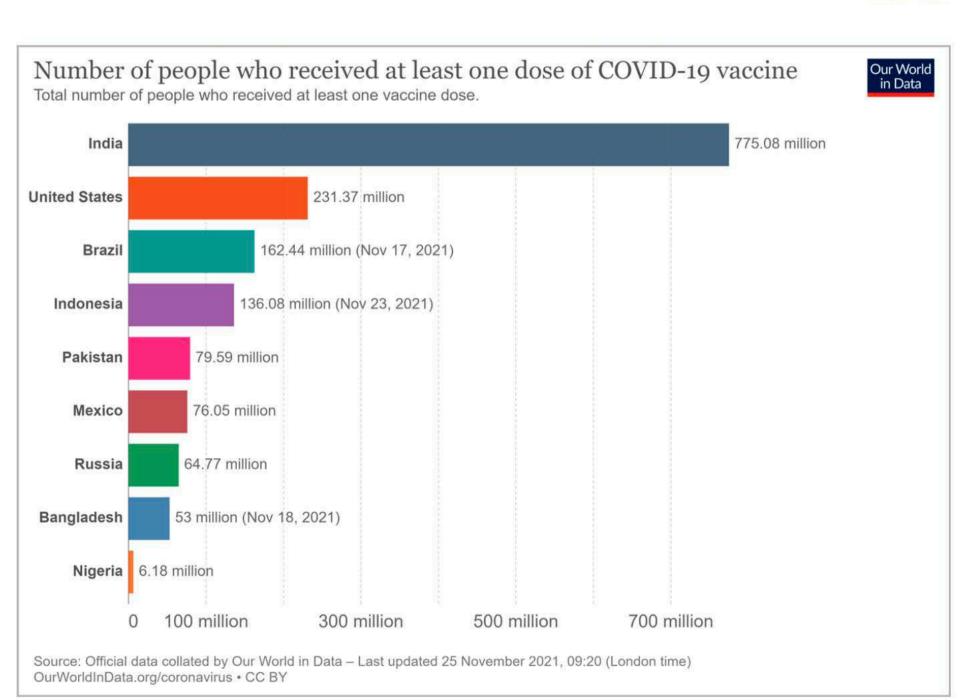


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Source link



Production forecast 2021



| China | 3.988.000.000 | India | 1.782.250.000 |
|-------------|---------------|----------------|---------------|
| Sinovac | 2.013.000.000 | AstraZeneca | 886.250.000 |
| Sinopharm | 1.000.000.000 | Bharat BioTech | 570.000.000 |
| CanSinoBio | 500.000.000 | SIOInlo | 200.000.000 |
| ZFSW | 375.000.000 | GNC | 126.000.000 |
| AstraZeneca | 100.000.000 | | |
| | | | |
| US | 2 520 000 000 | Belgium | 1 125 000 000 |

| US | 2.520.000.000 | Belgium | 1.125.000.000 |
|----------------|---------------|----------------|---------------|
| BioTech Pfizer | 1.000.000.000 | BioTech Pfizer | 1.125.000.000 |
| Moderna | 1.000.000.000 | | |
| AstraZeneca | 420.000.000 | | |

| Bharat BioTed | ch | 100.000.000 | | | |
|----------------------------------|---------------------------------------|--------------------------------|---------------------------------|--------------------------------|--|
| Australia AstraZeneca | 50.000.000 50.000.000 | Italy Johnson&Johnson | 25.000.000 25.000.000 | South Africa Johnson&Johnso | 150.000.000 on 150.000.000 |
| Brazil AstraZeneca | 265.500.000 163.500.000 | Japan AstraZeneca | 30.000.000 30.000.000 | South Korea GNC | 250.000.000 150.000.000 |
| GNC Sinovac | 56.000.000 46.000.000 | Kazakhstan GNC | 5.640.000 5.640.000 | Moderna Spain Moderna | 100.000.000 85.000.000 60.000.000 |
| Egypt Sinovac | 60.300.000 60.300.000 | Malaysia Sinovac | 12.035.000 12.000.000 | Johnson&Johnson | |
| France Johnson&Johnso | 108.000.000 on 108.000.000 | CanSinoBio Mexico | 35.000 285.000.000 | BioTech Pfizer | 50.000.000 |
| Germany BioTech Pfizer | 1.046.000.000 1.000.000.000 | AstraZeneca CanSinoBio | 250.000.000 35.000.000 | Thailand AstraZeneca | 61.000.000 61.000.000 |
| GNC AstraZeneca | 36.000.000 10.000.000 | Netherlands Johnson&Johnson | 692.000.000 692.000.000 | UAE Sinopharm | 150.000.000 150.000.000 |
| Indonesia Sinovac | 250.000.000 250.000.000 | Pakistan CanSinoBio | 21.000 21.000 | UK AstraZeneca | 562.500.000 562.500.000 |

Approved vaccine production and distribution

| | | American Data Addison Control | | |
|---|------------------------------------|-------------------------------|---------------------|-----------------------|
| Company name/logo | Vaccine name | Type platform | Product temperature | Transport temperature |
| AstraZeneca 🕏 | AZD1222 | Non Replicating Viral Vector | +2C° to +8C° | +2C° to +8C° |
| BIONTECH Pfizer | BNT162b2 | mRNA | -70C° | +15C° to +25C° |
| moderna ⁻ | mRNA - 1273 | mRNA | -20C° | +2C° to +8C° |
| SINOPHARM | BBIBP-CorV (Beijing) | Inactivated | +2C° to +8C° | +2C° to +8C° |
| THE GAMALEYA NATIONAL CENTER OF EFECUNDATIVE AND INCREMENDATIVE | Sputnik V | Non Replicating Viral Vector | +2C° to +8C° | +2C° to +8C° |
| & CanSinoBIO | Ad5-nCoV | Non Replicating Viral Vector | +2C° to +8C° | +2C° to +8C° |
| SERUM INSTITUTE OF INDIA PVT. LTD. | Covishield | Non Replicating Viral Vector | +2C° to +8C° | +2C° to +8C° |
| DHARAT | Covaxin | Inactivated | +2C° to +8C° | +2C° to +8C° |
| anssen) Johnson Johnson | Ad26.COV2.S | Non Replicating Viral Vector | -20C° | +2C° to +8C° |
| sinovac | Coronavac | Inactivated | +2C° to +8C° | +2C° to +8C° |
| Z-SW @ RETITUTE OF NEDICAL BIOLOGY | RBD-Dimer | Protein Subunit | +2C° to +8C° | +2C° to +8C° |
| ВЕКТОР | EpiVacCorona | Protein Subunit | +2C° to +8C° | +2C° to +8C° |
| MALSON MICRONAL SEC | KoviVac | Inactivated | +2C° to +8C° | +2C° to +8C° |
| RIBSP Street Annual Street | QazCovid-in | Inactivated | +2C° to +8C° | +2C° to +8C° |
| MINHRI 民海生物 Marky BioTital Processor Std. LTD | SARS-CoV-2 Vaccine (Vero Cells) | Inactivated | +2C° to +8C° | +2C° to +8C° |
| Shafa Pharmed Pars | Covid-19 | Inactivated | +2C° to +8C° | +2C° to +8C° |
| International Centre for Genetic Engineering and Biotechnology Developing Knowledge | CIGB-66 | Protein Subunit | +2C° to +8C° | +2C° to +8C° |
| THE GAMALEYA NATIONAL CENTER OF EPIGEOROLOGY | Sputnik Light | Non Replicating Viral Vector | +2C° to +8C° | +2C° to +8C° |
| MVC 高端维苗生物製料整份有限公司 MEDIGEN VACCINE BIOLOGICS CO | MVC-COV1901 | Protein Subunit | +2C° to +8C° | +2C° to +8C° |
| | | | | |

Source link





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