Leading vaccines

As of Feb 18, 2021, The New York Times Coronavirus Vaccine Tracker listed 70 vaccines in human trials, and 89 in preclinical trials. Here are the top 10 leading vaccines

| DEVELOPER | HOW IT WORKS | PHASE | EFFICACY | DOSE | TYPE | STORAGE | AUTHORISATION/APPROVAL |
|------------------------|-----------------|-------|--|------------------------------|---------------------|---|--|
| Pfizer -BioNTech | mRNA | 3 | 95% | 2 doses, 3 weeks apart | Muscle injection | Freezer storage only at –70°C | Albania, Argentina, Australia, Bahrain, Canada, Chile, Colombia, Costa Rica, Ecuador, EU, Faroe Islands, Greenland, Iceland, Iraq, Israel, Japan, Jordan, Kuwait, Malaysia, Mexico, New Zealand, Norway, Oman, Panama, Philippines, Qatar, Saint Vincent and the Grenadines, Saudi Arabia, Serbia, Singapore, Switzerland, UAE, UK, US, Vatican City |
| Moderna | mRNA | 3 | 94.5% | 2 doses, 4 weeks apart | Muscle injection | 30 days with refrigeration, 6 months at –20°C | Canada, EU, Faroe Islands, Greenland, Iceland, Israel, Norway, Qatar, Saint Vincent and the Grenadines, Singapore, Switzerland, UK, US |
| Gamaleya | Ad26, Ad5 | 3 | 91.6% | 2 doses, 3 weeks apart | Muscle injection | Freezer storage; developing an alternative formulation that can be refrigerated | Algeria, Argentina, Armenia, Bahrain, Belarus, Bolivia, Gabon, Guinea, Hungary, Iran, Kazakhstan, Laos, Lebanon, Mexico, Mongolia, Montenegro, Myanmar, Nicaragua, Pakistan, Palestine, Paraguay, Republika Srpska, Russia, Saint Vincent and the Grenadines, Serbia, Tunisia, Turkmenistan, UAE, Uzbekistan, Venezuela |
| Oxford -AstraZeneca | ChAdOx1 | 3 | 82.4% | 2 doses | Muscle injection | Stable in refrigerator for at least 6 months | Argentina, Bahrain, Bangladesh, Brazil, Chile, Dominican Republic, Ecuador, El Salvador, EU, Hungary, India, Iraq, Mexico, Morocco, Myanmar, Nepal, Pakistan, Philippines, Saint Vincent and the Grenadines, South Africa, South Korea, Sri Lanka, Thailand, UK, Vietnam |
| CanSino Biologics | Ad5 | 3 | 65.7% | Single dose | Muscle injection | Refrigerated | Mexico, China (military use), Pakistan |
| Johnson & Johnson | Ad26 | 3 | 72% in US, 66% in Latin America, 57% in South Africa | Single dose | Muscle injection | Up to two years frozen at -20° C, and up to three months refrigerated at 2-8° C | Saint Vincent and the Grenadines |
| Vector Institute | Protein | 3 | Unknown | 2 doses, 3 weeks apart | Muscle injection | Stable in refrigerator for up to two years | Russia, Turkmenistan |
| Novavax | Protein | 3 | 89.3% | 2 doses, 3 weeks apart | Muscle injection | Stable in refrigerator | - |
| Sinopharm | Inactivated | 3 | 79.3% | 2 doses, 3 weeks apart | Muscle injection | Unknown | Bahrain, Cambodia, China, Egypt, Hungary, Iraq, Jordan, Laos, Macau, Morocco, Pakistan, Peru, Serbia, Seychelles, UAE |
| Sinovac | Inactivated | 3 | 50.4% | 2 doses, 2 weeks apart | Muscle injection | Refrigerated | Azerbaijan, Bolivia, Brazil, Cambodia, China, Chile, Colombia, Indonesia, Laos, Turkey, Uruguay |
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