

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