

Summary of COVID-19 vaccines with Emergency Use Authorization (EUA) in Bhutan

| Parameters | Vaccines | | |
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| Product details: | | | |
| Name | Pfizer-BioNTech COVID-19 Vaccine | COVISHIELD | BBIBP-CorV |
| Active ingredients | Nucleoside-modified mRNA encoding the viral spike (S) glycoprotein of SARS-CoV-2 | Chimpanzee Adenovirus encoding the SARS-CoV-2 Spike glycoprotein (ChAdOx1-S) | Inactivated form of SARS-CoV-2, 19nCoV-CDC-Tan-HB02 strain |
| Excipients | 2[(polyethylene glycol)-2000]-N, N-ditetradecylacetamide, 1,2-distearoyl-sn-glycero-3- phosphocholine, Cholesterol, (4-hydroxybutyl) azanediyl)bis(hexane-6,1- diyl)bis(2-hexyldecanoate), Sodium chloride, Monobasic potassium phosphate, Potassium chloride, Dibasic sodium phosphate dihydrate, Sucrose | L-Histidine, L-Histidine hydrochloride monohydrate, Magnesium chloride hexahydrate, Polysorbate 80, Ethanol, Sucrose, Sodium chloride, Disodium edetate dihydrate (EDTA), Water for injection | Aluminium hydroxide (as adjuvant), Disodium hydrogen phosphate, Sodium chloride, Sodium dihydrogen phosphate. |
| Indications | To prevent Coronavirus Disease 2019 (COVID-19) caused by SARS-CoV-2 | To prevent Coronavirus Disease 2019 (COVID-19) caused by SARS-CoV-2 | To prevent COVID-19 caused by SARS-CoV-2 virus |
| Route of administration | Intramuscular, in the upper arm | Intramuscular, in the deltoid muscle | Intramuscular, preferably upper arm |
| Dose | 0.3 ml each | 0.5 ml each | 0.5 ml each |
| Number of shots | 2 shots, 3 weeks apart | 2 shots, 4-12 weeks apart | 2 shots, 3-4 weeks apart |
| Storage conditions | -80°C to -60°C up to 6 months; -25°C to -15°C for 2 weeks; 2°C to 8°C for 5 days | 2°C to 8°C for 6 months | 2°C to 8°C |
| Handling instructions | <ul style="list-style-type: none"> • During storage, minimize exposure to room light, and avoid exposure to direct sunlight and ultraviolet light. • Do not refreeze thawed vials. | <ul style="list-style-type: none"> • Do not freeze the vaccine. • Store in outer carton in order to protect from light. • Vials should be discarded 6 hours after opening or at the end of the immunization session, whichever comes first. | <ul style="list-style-type: none"> • Do not freeze the vaccine in any circumstance. • Protect the vaccine from direct exposure to sunlight. |
| Common side effects | Pain, Redness, Swelling, Tiredness, Headache, Muscle pain, Chills, Fever, Nausea | <ul style="list-style-type: none"> • At injection site: tenderness, pain, warmth, redness, itching, swelling or bruising where the injection is given | <ul style="list-style-type: none"> • Local: flush, swelling, scleroma, rash and itching, erythema (uncommon) |

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| | | <ul style="list-style-type: none"> • General: feeling tired (fatigue), chills or feeling feverish, headache and nausea, joint pain or muscle ache | <ul style="list-style-type: none"> • Systemic: fever, fatigue, muscle ache, joint pain, cough, difficulty breathing, nausea, diarrhea, and itchy skin |
| Age limit of patients | ≥16 years | ≥18 years | ≥18– 60 |
| Manufacturing company | Pfizer, Inc., and BioNTech | Serum Institute of India Pvt. Ltd. | Beijing Institute of Biological Products Co. Ltd., Beijing, China (Sinopharm Group Co., Ltd) |
| Reference National Regulatory Authority (date) | USFDA (11/12/2020) | WHO (15/02/2021) | Hungary National Institute of Pharmacy and Nutrition (31/01/2021) |
| Countries with approvals | Albania, Argentina, Australia, Austria, Bahrain, Belgium, Botswana, Brazil, Bulgaria, Canada, Chile, Colombia, Costa Rica, Croatia, Cyprus, Czech Republic, Denmark, Dominican Republic, Ecuador, Estonia, Faroe Islands, Finland, France, Germany, Greece, Greenland, Hong Kong, Hungary, Iceland, Iraq, Ireland, Israel, Italy, Japan, Jordan, Kuwait, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Moldova, Mongolia, Netherlands, New Zealand, Norway, Oman, Panama, Peru, Philippines, Poland, Portugal, Qatar, Republic of Serbia, Romania, Rwanda, Saudi Arabia, Singapore, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Ukraine, United Arab Emirates, United Kingdom, United States of America | Afghanistan, Argentina, Bahrain, Bangladesh, Botswana, Brazil, Canada, Ghana, India, Maldives, Morocco, Nepal, Nigeria, Seychelles, South Africa, Sri Lanka, The Bahamas, Trinidad and Tobago, Ukraine | Argentina, Bahrain, Belarus, Bolivia, Cambodia, China, Egypt, Guyana, Hungary, Iraq, Jordan, Morocco, Nepal, Pakistan, Peru, Republic of Serbia, Senegal, Seychelles, United Arab Emirates, Zimbabwe |