

For the use only of a Registered Medical Practitioner or a Hospital or a Laboratory.

# SARS-CoV-2 rS Protein (COVID-19) recombinant spike protein Nanoparticle Vaccine



**1 NAME OF THE MEDICINAL PRODUCT**  
Trade/Brand Name: COVOVAX™  
SARS-CoV-2 rS Protein (COVID-19) recombinant spike protein Nanoparticle Vaccine

**2 QUALITATIVE AND QUANTITATIVE COMPOSITION**  
One dose (0.5 ml) contains 5 micrograms of SARS-CoV-2 spike protein\* and is adjuvanted with Matrix-M1. Adjuvant Matrix-M1 containing per 0.5 ml dose: Fraction-A (42.5 micrograms) and Fraction-C (7.5 micrograms) of *Quiljaya saponaria* Molina extract.  
\*SARS-CoV-2 recombinant spike protein is produced by recombinant DNA technology using a baculovirus expression system in an insect cell line that is derived from Sf9 cells of the *Spartopetra frugiperda* species. For the full list of excipients, see section 6.1.  
Both COVOVAX™ (manufactured by Serum Institute of India Pvt Ltd) and Nuvoxoid (manufactured by Novavax) are SARS-CoV-2 rS Protein (COVID-19) Nanoparticle Vaccines.

**3 PHARMACEUTICAL FORM**  
Dispersion for injection (injection).  
COVOVAX™ is colourless to slightly yellow, clear to mildly opalescent, free to practically free from visible particles.

**4 CLINICAL PARTICULARS**  
**4.1 Therapeutic Indications**  
COVOVAX™ is indicated for active immunization to prevent COVID-19 caused by SARS-CoV-2 in individuals 7 years of age and older.  
The vaccine is approved for restricted use in emergency situation that may prevent COVID-19 disease.

**4.2 Posology and method of administration**  
**Posology:**  
Individuals 7 years of age and older  
COVOVAX™ is administered intramuscularly as a course of 2 doses of 0.5 ml each. It is recommended to administer the second dose 3 weeks after the first dose, see section 5.1.  
It is recommended that individuals who receive a first dose of COVOVAX™, complete the vaccination course with COVOVAX™.  
**Paediatric population**  
The safety and efficacy of SARS-CoV-2 rS Protein (COVID-19) Nanoparticle Vaccine in children aged less than 7 years have not yet been established.  
**Elderly population**  
No dose adjustment is required in elderly individuals ≥ 65 years of age.  
**Method of administration**  
COVOVAX™ is intended for intramuscular (IM) injection only, preferably in the deltoid muscle.  
For instructions on administration, see section 6.6.

**4.3 Contraindications**  
Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

**4.4 Special warnings and precautions for use**  
**Hypersensitivity and anaphylaxis**  
Events of anaphylaxis have been reported with COVID-19 vaccines. Appropriate medical treatment and supervision should always be readily available in case of an anaphylactic reaction following the administration of the vaccine.  
Close observation for at least 15 minutes is recommended following vaccination. A second dose of the vaccine should not be given to those who have experienced anaphylaxis to the first dose of COVOVAX™.  
**Close observation for at least 15 minutes is recommended following vaccination. A second dose of the vaccine should not be given to those who have experienced anaphylaxis to the first dose of COVOVAX™.**  
Anxiety-related reactions, including vasovagal reactions (syncope), hyperventilation, or stress-related reactions may occur in association with vaccination as a psychogenic response to the needle injection. It is important that precautions are in place to avoid injury from fainting.  
**Concurrent illness**  
Vaccination should be postponed in individuals suffering from an acute severe febrile illness or acute infection. The presence of a minor infection and/or low-grade fever should not delay vaccination.  
**Thrombocytopenia and coagulation disorders**  
As with other intramuscular injections, the vaccine should be given with caution in individuals receiving anticoagulant therapy or those with thrombocytopenia or any coagulation disorder (such as haemophilia) because bleeding or bruising may occur at the injection site following an intramuscular administration in these individuals.  
**Immunocompromised individuals**  
There is no data on efficacy, safety, and immunogenicity of COVOVAX™ in immunocompromised individuals.  
**Duration of protection**  
The duration of protection afforded by the vaccine is unknown as it is still being determined by ongoing clinical trials.  
**Limitations of vaccine effectiveness**  
Individuals may not be fully protected until 7 days after their second dose. As with all vaccines, vaccination with COVOVAX™ may not protect all vaccine recipients.

**Excipients**  
Sodium  
This vaccine contains less than 1 mmol sodium (23 mg) per dose, that is to say essentially 'sodium-free'.  
Potassium  
This vaccine contains potassium, less than 1 mmol (39 mg) per 0.5 ml, that is to say, essentially potassium-free.

**4.5 Interaction with other medicinal products and other forms of interaction**  
Co-administration of SARS-CoV-2 rS Protein (COVID-19) Nanoparticle Vaccine with inactivated influenza vaccine has been evaluated in a limited number of participants in an exploratory clinical trial sub-study, see section 4.8 and section 5.1.  
The binding antibody response to SARS-CoV-2 was lower when Nuvoxoid was given concomitantly with inactivated influenza vaccine. The clinical significance of this is unknown.  
Concomitant administration of SARS-CoV-2 rS Protein (COVID-19) Nanoparticle Vaccine with other vaccines has not been studied.

**4.6 Fertility, pregnancy and lactation**  
**Pregnancy**  
Animal studies do not indicate direct or indirect harmful effects with respect to pregnancy, embryo/foetal development, parturition, or post-natal development, see section 5.3.  
Administration of COVOVAX™ in pregnancy should only be considered when the potential benefits outweigh any potential risks for the mother and foetus.  
**Breast-feeding**  
It is unknown whether COVOVAX™ is excreted in human milk.  
No effects on the breast-fed newborn/infant are anticipated since the systemic exposure of the breast-feeding woman to COVOVAX™ is negligible.

**Fertility**  
Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity, see section 5.3.

**4.7 Effects on ability to drive and use machines**  
COVOVAX™ has no or negligible influence on the ability to drive and use machines. However, some of the effects mentioned under section 4.8 may temporarily affect the ability to drive or use machines.

**4.8 Undesirable effects**  
**Overall summary of the safety profile from the Overseas studies:**  
**Clinical trial data for the age group ≥ 18 Years:**  
The safety of Nuvoxoid [Novavax SARS-CoV-2 rS Protein (COVID-19) Nanoparticle Vaccine] was evaluated from an interim analysis of pooled data from 5 ongoing clinical trials conducted in Australia, South Africa, the United Kingdom, the United States and Mexico. At the time of the analysis, a total of 49,950 participants age 18 years and older received at least one dose of Nuvoxoid (n=30,058) or placebo (n=19,892). At the time of vaccination, the median age was 48 years (range 18 to 95 years).  
The median duration of follow-up was 70 days post-Dose 2, with 32,993 (66%) participants completing more than 2 months following post-Dose 2.  
Of the pooled reactogenicity data, which includes participants age 18 years and older enrolled in the two phase 3 studies who received at least one dose of Nuvoxoid (n = 19,898) or placebo (n = 10,454), the most frequent adverse reactions were injection site tenderness (75%), injection site pain (62%), fatigue (53%), myalgia (51%), headache (50%), malaise (41%), arthralgia (24%), and nausea or vomiting (15%). Adverse reactions were usually mild to moderate in severity with a median duration of less than or equal to 2 days for local events and less than or equal to 1 day for systemic events following vaccination.  
Overall, there was a higher incidence of adverse reactions in younger age groups: the incidence of injection site tenderness, injection site pain, fatigue, myalgia, headache, malaise, arthralgia, and nausea or vomiting was higher in adults aged 18 to less than 65 years than in those aged 65 years and above.  
Local and systemic adverse reactions were more frequently reported after Dose 2 than after Dose 1.  
Licensed inactivated seasonal influenza vaccines were co-administered to participants on the same day as Dose 1 of Nuvoxoid (n=217) or placebo (n=214) in the opposite deltoid muscle of the arm in 431 participants enrolled in an exploratory Phase 3 (2019nCov-302) sub-study. The frequency of local and systemic adverse reactions in the influenza sub-study population was higher than in the main study population following Dose 1 in both Nuvoxoid and placebo recipients.

**Tabulated list of adverse reactions**  
Very common (≥ 1/10),  
Common (≥ 1/100 to < 1/10),  
Uncommon (≥ 1/1,000 to < 1/100),  
Rare (≥ 1/10,000 to < 1/1,000),  
Very rare (< 1/10,000).  
Not known (cannot be estimated from the available data).

**Table 1: Adverse reactions from Nuvoxoid Clinical Trials in adults**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain <sup>a</sup> , injection site tenderness <sup>a</sup> , fatigue <sup>a</sup> , malaise <sup>a,b</sup>
	Common	Injection site erythema <sup>a</sup> , injection site swelling <sup>a</sup> , pyrexia <sup>a</sup> , chills, pain in extremity
	Uncommon	Injection site pruritus
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia <sup>a</sup> , arthralgia <sup>a</sup>
Gastrointestinal system disorders	Very common	Nausea or vomiting <sup>a</sup>
Skin and subcutaneous tissue disorders	Uncommon	Rash, erythema, pruritus, urticaria
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

<sup>a</sup> Higher frequencies of these events were observed after the second dose.  
<sup>b</sup> This term also included events reported as influenza-like illness.  
<sup>c</sup> This term includes both injection site redness and injection site erythema (common).

**Clinical trial data for the age group 12 to < 18 Years:**  
The safety of Nuvoxoid [Novavax SARS-CoV-2 rS Protein (COVID-19) Nanoparticle Vaccine] was evaluated in a Phase 3, multinational, multicenter, randomized, observer-blinded, placebo-controlled study evaluating the efficacy, safety, and immunogenicity of NVXCoV2373 in adult participants ≥ 18 years of age in the United States (US) and Mexico with a pediatric expansion in adolescents 12 to < 18 years of age conducted in the US only (Study 2019nCov-301). At the time of the analysis, a total of 2,232 adolescent participants received at least one dose of Nuvoxoid (n=1487) or placebo (n=745). At the time of vaccination, the median age was 14 years (range 12 to 17 years).  
Median duration of the safety follow-up period after first and second vaccinations were 94 and 71 days, respectively, in the Nuvoxoid group and 93 and 71 days, respectively, in the placebo group.  
Nuvoxoid was well tolerated with an acceptable safety profile. Reactogenic events were mostly of mild to moderate severity and of a median duration of 1 to 2 days. Tenderness (65.3%) and pain (61.2%) were the most frequent solicited local adverse events. Muscle pain (34%), headache (30.3%), fatigue (24.2%), and malaise (14.8%) and were the most frequent solicited systemic adverse events.  
Overall, the safety profile of Nuvoxoid was similar to that seen with placebo, with higher frequencies of unsolicited treatment-related Treatment Emergent Adverse Events (TEAEs) in the Nuvoxoid group, primarily with events consistent with a serologic response. Most participants in the 2 treatment groups reported unsolicited TEAEs that were mild in severity.

**Table 2: Adverse reactions from Nuvoxoid adolescent Clinical Trial (age group 12 to < 18 Years)**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Overall summary of the safety profile from the Indian study**  
**Adult cohort (≥ 18 years of age):**  
COVOVAX™ was safe and well tolerated in the Phase 2/3 clinical trial in India. In the Phase 2 part (n=200), 200 adults received COVOVAX™ or Placebo in 3:1 ratio. During 14 day follow up post-second dose, there were no causally related serious adverse events (SAEs) reported. In the Phase 3 part (n=1396), participants received COVOVAX™ or Nuvoxoid SARS-CoV-2 rS Protein Nanoparticle Vaccine (Nuvoxoid vaccine) in 3:1 ratio [1046 in COVOVAX™ group and 350 in Nuvoxoid SARS-CoV-2 rS Protein Nanoparticle Vaccine (Nuvoxoid vaccine) group]. All 1396 participants received the first dose while 1375 participants received the second dose. An interim analysis included data collected until Day 36 visit (14 days after second dose) of all 1396 participants.  
Demographic characteristics were generally similar among participants across both the groups.  
Overall, the incidence of solicited reactions (injection site reactions: pain, tenderness, erythema, swelling and induration), and systemic reactions: fever, headache, fatigue, malaise, arthralgia, myalgia, nausea and vomiting), unsolicited adverse events and serious adverse events (SAEs) was comparable in the study and control groups.  
Among 1396 participants who received the first dose, a total of 5 SAEs in 5 (0.4%) participants were reported; in 3 (0.3%) participants in COVOVAX™ group and in 2 (0.6%) participants in Nuvoxoid vaccine group. The SAEs in the COVOVAX™ group included pyrexia, limb crushing injury, and joint effusion (1 participant each). The SAEs in the Nuvoxoid vaccine group included dengue fever and retinal vein occlusion reported in 1 participant each. All SAEs were assessed as not related to study vaccine. All SAEs resolved without any sequelae except for event of limb crushing injury which was ongoing at the time of data cut-off.

**Table 3: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
Gastrointestinal disorders	Common	Nausea
	Uncommon	Vomiting
	Very common	Injection site pain, pyrexia
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, injection site erythema, injection site swelling, injection site induration, fatigue, pain, malaise
	Uncommon	Asthenia, chills, injection site pruritus, injection site rash
	Common	Myalgia, arthralgia
Musculoskeletal and connective tissue disorders	Common	Pain in extremity, back pain

**Table 4: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 5: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 6: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 7: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 8: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 9: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 10: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 11: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 12: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 13: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 14: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 15: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 16: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 17: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 18: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 19: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 20: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 21: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 22: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection site erythema, injection site swelling, pyrexia
	Rare	Chills
Nervous system disorders	Very common	Headache
Musculoskeletal and connective tissue disorders	Very common	Myalgia
Gastrointestinal system disorders	Very common	Arthralgia
Skin and subcutaneous tissue disorders	Uncommon	Nausea or vomiting
Blood and lymphatic system disorders	Uncommon	Lymphadenopathy

**Table 23: Adverse drug reactions from COVOVAX™ study in adults in India**

MedDRA SOC	Frequency	Adverse reactions
General disorders and administration site conditions	Very common	Injection site pain, injection site tenderness, fatigue, malaise
	Common	Injection