FLUCELVAX QUADRIVALENT (PREFILLED SYRINGE) - influenza a virus a/idaho/07/2018 (h1n1) antigen (mdck cell derived, propiolactone inactivated, influenza a virus a/indiana/08/2018 (h3n2) antigen (mdck cell derived, propiolactone inactivated), influenza b virus b/singapore/inftt-16-0610/2016 antigen (mdck cell derived, propiolactone inactivated) injection, suspension FLUCELVAX QUADRIVALENT (MULTI-DOSE VIAL) - influenza a virus a/idaho/07/2018 (h1n1) antigen (mdck cell derived, propiolactone inactivated, influenza a virus a/indiana/08/2018 (h3n2) antigen (mdck cell derived, propiolactone inactivated), influenza b virus b/singapore/inftt-16-0610/2016 antigen (mdck cell derived, propiolactone inactivated), influenza b virus b/singapore/inftt-16-0610/2017 antigen (mdck cell derived, propiolactone inactivated) injection, suspension Seqirus, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use FLUCELVAX® QUADRIVALENT safely and effectively. See full prescribing information for FLUCELVAX QUADRIVALENT.

FLUCELVAX QUADRIVALENT (Influenza Vaccine) Suspension for Intramuscular Injection 2019-2020 Formula

Initial U.S. Approval: 23 May 2016

FLUCELVAX QUADRIVALENT is an inactivated vaccine indicated for active immunization for the prevention of influenza

disease caused by influenza virus subtypes A and type B contained in the vaccine. (1)

(1) FLUCELVAX is approved for use in persons 4 years of age and older. (1)

For children and adolescents 4 through 17 years of age, approval is based on the immune response elicited by FLUCELVAX QUADRIVALENT. Data demonstrating a decrease in influenza disease after vaccination of children and adolescents 4 through 17 years of age with FLUCELVAX QUADRIVALENT are not available. (14)

-----DOSAGE AND ADMINISTRATION

For intramuscular use only (2)

Age	Dose	Schedule
4 through 8 years of age	One or two doses ^a , 0.5 mL each	If 2 doses, administer at least 4 weeks apart
9 years of age and older	One dose, 0.5mL	Not Applicable

^a 1 or 2 doses depends on vaccination history as per Advisory Committee on Immunization Practices annual recommendations on prevention and control of influenza with vaccines. (2)

----- DOSAGE FORMS AND STRENGTHS -----

Suspension for injection supplied in two presentations:

- 0.5-mL single-dose pre-filled syringes. (3,11)
- 5 mL multi-dose vial containing 10 doses (each dose is 0.5mL). (3,11)

 $History\ of\ severe\ allergic\ reactions\ (e.g.,\ anaphylaxis)\ to\ any\ component\ of\ the\ vaccine.\ (4,11)$

------WARNINGS AND PRECAUTIONS -----

• If Guillain-Barré syndrome has occurred within 6 weeks of receipt of a prior influenza vaccine, the decision to give FLUCELVAX QUADRIVALENT should be based on careful consideration of the potential benefits and risks. (5.1)

------ ADVERSE REACTIONS ------

- The most common (≥10%) local and systemic reactions in adults 18-64 years of age were injection site pain (45.4%) headache (18.7%), fatigue (17.8%) and myalgia (15.4%), injection site erythema (13.4%), and induration (11.6%). (6)
- The most common (\geq 10%) local and systemic reactions in adults \geq 65 years of age were injection site pain (21.6%) and injection site erythema (11.9%). (6)
- The most common (≥10%) local and systemic reactions in children 4 to <6 years of age were tenderness at the injection site (46%), injection site erythema (18%), sleepiness (19%), irritability (16%), injection site induration (13%) and change in eating habits (10%). (6)

- The most common (≥10%) local and systemic reactions in children 6 through 8 years of age were pain at the injection site (54%), injection site erythema (22%), injection site induration (16%), headache (14%), fatigue (13%) and myalgia (12%). (6)
- The most common (≥10%) local and systemic reactions in children and adolescents 9 through 17 years of age were pain at the injection site (58%), headache (22%), injection site erythema (19%), fatigue (18%) myalgia (16%), and injection site induration (15%). (6)

To report SUSPECTED ADVERSE REACTIONS, contact Seqirus at 1-855-358-8966 or VAERS at 1-800-822-7967 or www.vaers.hhs.gov.

----- USE IN SPECIFIC POPULATIONS -----

- Geriatric Use: Antibody responses were lower in adults 65 years and older than in younger adults. (8.5)
- Pregnancy: There is a pregnancy exposure registry that monitors outcomes in women exposed to FLUCELVAX QUADRIVALENT during pregnancy. Enroll in the pregnancy registry by calling 1-855-358-8966 or sending an email to us.medicalinformation@seqirus.com. (8.1)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 9/2019

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

FLUCELVAX QUADRIVALENT is an inactivated vaccine indicated for active immunization for the prevention of influenza disease caused by influenza virus subtypes A and type B contained in the vaccine. FLUCELVAX QUADRIVALENT is approved for use in persons 4 years of age and older. For children and adolescents 4 through 17 years of age, approval is based on the immune response elicited by FLUCELVAX QUADRIVALENT. Data demonstrating a decrease in influenza disease after vaccination of this age group with FLUCELVAX QUADRIVALENT are not available. [see Clinical Studies (14)]

2 DOSAGE AND ADMINISTRATION

For intramus cular injection only.

2.1 Dosage and Schedule

Administer FLUCELVAX QUADRIVALENT as a single 0.5 mL intramuscular injection preferably in the region of the deltoid muscle of the upper arm. Do not inject the vaccine in the gluteal region or areas where there may be a major nerve trunk.

Age	Dose	Schedule
4 through 8 years of age	One or two doses ¹ , 0.5 mL each	If 2 doses, administer at least 4 weeks apart
9 years of age and older	One dose, 0.5mL	Not Applicable

Table 1: Dosage and Schedule

2.2 Administration

Shake the syringe vigorously before administering and shake the multi-dose vial preparation each time before withdrawing a dose of vaccine. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit. [see Description (11)] If either condition exists, do not administer the vaccine. Between uses, return the multi-dose vial to the recommended storage conditions between 2° and 8°C (36° and 46°F). Do not freeze. Discard if the vaccine has been frozen.

Attach a sterile needle to the pre-filled syringe.

For the multi-dose vial, a separate sterile syringe and needle must be used for each injection to prevent transmission of infectious agents from one person to another. Needles should be disposed of properly and not recapped. It is recommended that small syringes (0.5 mL or 1 mL) should be used to minimize any product loss.

Administer intramuscularly only. Do not administer this product intravenously, intradermally or subcutaneously.

3 DOSAGE FORMS AND STRENGTHS

¹ 1 or 2 doses depends on vaccination history as per Advisory Committee on Immunization Practices annual recommendations on prevention and control of influenza with vaccines.

FLUCELVAX QUADRIVALENT is a suspension for injection supplied in two presentations:

- a 0.5 mL single-dose pre-filled Luer Lock syringe
- a 5 mL multi-dose vial containing 10 doses (each dose is 0.5 mL).

4 CONTRAINDICATIONS

Do not administer FLUCELVAX QUADRIVALENT to anyone with a history of severe allergic reaction (e.g. anaphylaxis) to any component of the vaccine [see Description (11)].

5 WARNINGS AND PRECAUTIONS

5.1 Guillain-Barré Syndrome

The 1976 swine influenza vaccine was associated with an elevated risk of Guillain-Barré syndrome (GBS). Evidence for a causal relation of GBS with other influenza vaccines is inconclusive; if an excess risk exists, it is probably slightly more than 1 additional case per 1 million persons vaccinated. If GBS has occurred after receipt of a prior influenza vaccine, the decision to give FLUCELVAX QUADRIVALENT should be based on careful consideration of the potential benefits and risks.

5.2 Preventing and Managing Allergic Reactions

Appropriate medical treatment and supervision must be available to manage possible anaphylactic reactions following administration of the vaccine.

5.3 Syncope

Syncope (fainting) can occur in association with administration of injectable vaccines, including Flucelvax. Syncope can be accompanied by transient neurological signs such as visual disturbance, paresthesia, and tonic-clonic limb movements. Procedures should be in place to avoid falling injury and to restore cerebral perfusion following syncope by maintaining a supine or Trendelenburg position.

5.4 Altered Immunocompetence

After vaccination with FLUCELVAX QUADRIVALENT, immunocompromised individuals, including those receiving immunosuppressive therapy, may have a reduced immune response.

5.5 Limitations of Vaccine Effectiveness

Vaccination with FLUCELVAX QUADRIVALENT may not protect all vaccine recipients against influenza disease.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

The most common (\geq 10%) local and systemic reactions in adults 18 through 64 years of age were injection site pain (45.4%), headache (18.7%), fatigue (17.8%) and myalgia (15.4%), injection site erythema (13.4%), and induration (11.6%).

The most common (\geq 10%) local and systemic reactions in adults \geq 65 years of age were injection site pain (21.6%), and injection site erythema (11.9%).

The most common (\geq 10%) local and systemic reactions in children 4 through 5 years of age after first dose of vaccine were tenderness at the injection site (46%), injection site erythema (18%), sleepiness (19%), irritability (16%), injection site induration (13%) and change in eating habits (10%).

The most common (\geq 10%) local and systemic reactions in children 6 through 8 years of age after first dose of vaccine were pain at the injection site (54%), injection site erythema (22%), injection site

induration (16%), headache (14%), fatigue (13%) and myalgia (12%).

The most common (\geq 10%) local and systemic reactions in children and adolescents 9 through 17 years of age were pain at the injection site (58%), headache (22%), injection site erythema (19%), fatigue (18%) and myalgia (16%), and injection site induration (15%).

Because clinical studies are conducted under widely varying conditions, adverse reaction rates observed in the clinical studies of a vaccine cannot be directly compared to rates in clinical studies of another vaccine, and may not reflect rates observed in clinical practice.

Adults 18 years of age and older:

The safety of FLUCELVAX QUADRIVALENT in adults was evaluated in a randomized, double-blind, controlled study conducted in the US (Study 1). The safety population included a total of 2680 adults 18 years of age and older; 1340 adults 18 through 64 years of age and 1340 adults 65 years of age and older.

In this study, subjects received FLUCELVAX QUADRIVALENT or one of the two formulations of comparator trivalent influenza vaccine (TIV1c and TIV2c) (FLUCELVAX QUADRIVALENT (n=1335), TIV1c, n=676 or TIV2c, n=669). The mean age of subjects who received FLUCELVAX QUADRIVALENT was 57.4 years of age; 54.8% of subjects were female and 75.6% were Caucasian, 13.4% were Black, 9.1% were Hispanics, 0.7% were American Indian and 0.3%, 0.1% and 0.7% were Asian, Native Hawaiian and others, respectively. The safety data observed are summarized in Table 2.

In this study, solicited local injection site and systemic adverse reactions were collected from subjects who completed a symptom diary card for 7 days following vaccination.

Solicited adverse reactions for FLUCELVAX QUADRIVALENT and comparator are summarized in Table 2.

Table 2: Incidence of Solicited Adverse Reactions in the Safety Population¹ Reported Within 7 Days of Vaccination (Study 1)

	18 through 6	64 years of	age	≥ 65 years of age					
		Percentages (%) ²							
	FLUCELVAX		Influenza	FLUCELVAX	Trivalent				
	QUADRIVALENT	Vac	cine	QUADRIVALENT	Vac	cine			
	N=663	TIV1c N=330	TIV2c N=327	N=656	TIV1c N=340	TIV2c N=336			
Local Advers	e Reactions								
Injection site induration	11.6 (0)	9.7 (0.3)	10.4 (0)	8.7 (0)	6.8 (0)	7.7 (0)			
Injection site erythema	13.4 (0)	13.3 (0)	10.1 (0)	11.9 (0)	10.6 (0)	10.4 (0)			
Injection site ecchymosis	3.8 (0)	3.3 (0.3)	5.2 (0)	4.7 (0)	4.4 (0)	5.4 (0)			
Injection site pain	45.4 (0.5)	37.0 (0.3)	40.7 (0)	21.6 (0)	18.8 (0)	18.5 (0)			
Systemic Adv	erse Reactions								
Chills	6.2 (0.2)	6.4 (0.6)	6.4 (0)	4.4 (0.3)	4.1 (0.3)	4.5 (0.6)			
Nausea	9.7 (0.3)	7.3 (0.9)	8.9 (1.2)	3.8 (0.2)	4.1(0)	4.2 (0.3)			
Myalgia	15.4 (0.8)	14.5 (0.9)	15.0 (1.2)	8.2 (0.2)	9.4 (0.3)	8.3 (0.6)			
Arthralgia	8.1 (0.5)	8.2(0)	9.5 (0.9)	5.5 (0.5)	5.0 (0.3)	6.8 (0.9)			
Headache	18.7 (0.9)	18.5 (0.9)	18.7 (0.6)	9.3 (0.3)	8.5 (0.6)	8.3 (0.6)			
Fatigue	17.8 (0.6)	22.1 (0.3)	15.6 (1.5)	9.1 (0.8)	10.6 (0.3)	8.9 (0.6)			

Vomiting	2.6 (0)	1.5 (0.3)	0.9(0)	0.9 (0.2)	0.3(0)	0.6(0)
Diarrhea	7.4 (0.6)	7.6 (0)	7.6 (0.6)	4.3 (0.5)	5.0 (0.9)	5.1 (0.3)
Loss of appetite	8.3 (0.3)	8.5 (0.3)	8.3 (0.9)	4.0 (0.2)	5.0 (0)	3.6 (0.3)
Fever: ≥38.0 °C (≥40.0°C)	0.8 (0)	0.6 (0)	0.3(0)	0.3 (0)	0.9 (0)	0.6 (0)

 $^{^{1}}$ Safety population: all subjects in the exposed population who provided post-vaccination safety data

Study 1: NCT01992094

Unsolicited adverse events were collected for 21 days after vaccination. In adults 18 years of age and older, unsolicited adverse events were reported in 16.1% of subjects who received FLUCELVAX QUADRIVALENT, within 21 days after vaccination.

In adults 18 years of age and older, serious adverse events (SAEs) were collected throughout the study duration (until 6 months after vaccination) and were reported by 3.9%, of the subjects who received FLUCELVAX QUADRIVALENT. None of the SAEs were assessed as being related to study vaccine.

Children and Adolescents 4 through 17 years of age:

The safety of FLUCELVAX QUADRIVALENT in children was evaluated in a randomized, double-blind, controlled study conducted in the US (Study 2). The safety population included a total of 2332 children 4 through 17 years of age; 1161 children 4 through 8 years of age and 1171 children 9 through 17 years of age.

In this study, subjects received FLUCELVAX QUADRIVALENT or one of the two formulations of comparator trivalent influenza vaccine (FLUCELVAX QUADRIVALENT n=1159, TIV1c, n=593 or TIV2c, n= 580). Children 9 through 17 years of age received a single dose of FLUCELVAX QUADRIVALENT or comparator vaccine. Children 4 through 8 years of age received one or two doses (separated by 4 weeks) of FLUCELVAX QUADRIVALENT or comparator vaccine based on determination of the subject's prior influenza vaccination history. The mean age of subjects who received FLUCELVAX QUADRIVALENT was 9.6 years of age; 48% of subjects were female and 53% were Caucasian. The safety data observed are summarized in Table 3 and Table 4.

In this study, solicited local injection site and systemic adverse reactions were collected from subjects who completed a symptom diary card for 7 days following vaccination.

Solicited adverse reactions for FLUCELVAX QUADRIVALENT and comparator are summarized in Table 3 and Table 4.

Table 3: Incidence of Solicited Adverse Reactions in the Safety Population¹ (4 through 5 years of age) Reported Within 7 Days of the First dose of Vaccination (Study 2)

	Children 4 through 5 years					
	P	ercentages (%) ²				
	FLUCELVAX	Trivalent Influ	enza Vaccine			
	QUADRIVALENT N=182	TIV1c N=91	TIV2c N=93			
Local Adverse Rea	ctions					
Injection site induration	13 (1)	20 (2)	13 (0)			
Injection site erythema	18 (1)	23 (1)	17 (0)			
Injection site ecchymosis	9 (0)	11 (0)	8 (0)			

²Percentage of severe adverse reactions are presented in parenthesis

Injection site tenderness	46 (1)	45 (1)	43 (0)							
Systemic Adverse	Systemic Adverse Reactions									
Change in eating habits	10 (1)	7	6							
Sleepiness	19 (1)	12 (3)	10 (0)							
Irritability	16 (2)	10 (2)	10 (1)							
Chills	5 (1)	2 (0)	1(0)							
Vomiting	4 (0)	2 (0)	2(0)							
Diarrhea	4 (0)	2 (0)	2(0)							
Fever: ≥38.0 °C (≥40.0 °C)	4 (0)	4 (0)	3 (0)							

¹Safety population: all subjects in the exposed population who provided post-vaccination safety data.

Study 2: NCT01992107

Table 4: Incidence of Solicited Adverse Reactions in the Safety Population¹ (Children 6 through 17 years of age) Reported Within 7 Days of Vaccination (Study 2)

	Children 6 through 8 years (after first dose)			Children 9 through 17 years			
			Percenta	ges (%) ²			
			t Influenza ccine			Influenza cine	
	FLUCELVAX QUADRIVALENT N=371-372	TIV1c N=185	TIV2c N=186	N=579	TIV1c N=294	TIV2c N=281- 282	
Local Adverse Re	eactions						
Injection site induration	16 (0)	19 (1)	13 (0)	15 (0)	15 (0)	13 (<1)	
Injection site erythema	22 (0)	23 (1)	20 (0)	19 (<1)	17 (0)	15 (<1)	
Injection site ecchymosis	9 (0)	9 (0)	8 (0)	4 (0)	5 (0)	5 (0)	
Injection site pain	54 (1)	57 (1)	58 (2)	58 (1)	51(<1)	50 (0)	
Systemic Adverse	e Reactions						
Chills	4 (1)	3 (0)	4(0)	7 (0)	6 (1)	4 (1)	
Nausea	8 (1)	5 (0)	5 (1)	9 (<1)	8 (1)	7 (1)	
Myalgia	12 (1)	14 (0)	10 (0)	16 (<1)	17 (<1)	15 (<1)	
Arthralgia	4 (0)	5 (0)	4 (0)	6 (0)	6 (0)	8 (<1)	
Headache	14 (1)	13 (0)	12 (0)	22 (1)	23 (2)	18 (1)	
Fatigue	13 (2)	14 (0)	18 (0)	18 (<1)	16 (1)	16 (<1)	
Vomiting	3 (1)	3 (0)	3 (0)	2 (0)	1(0)	2 (0)	
Diarrhea	3 (<1)	6 (1)	5 (0)	4 (0)	4 (0)	3 (<1)	
Loss of appetite	9 (<1)	5 (0)	8 (1)	9 (0)	9 (<1)	9 (0)	
Fever: ≥38.0 °C (≥40.0 °C)	4 (0)	3 (0)	2 (0)	1 (<1)	3 (0)	1 (0)	

¹Safety population: all subjects in the exposed population who provided post-vaccination safety data.

Study 2: NCT 01992107

²Percentage of subjects with severe adverse reactions are presented in parenthesis.

²Percentage of subjects with severe adverse reactions are presented in parenthesis.

In children who received a second dose of FLUCELVAX QUADRIVALENT, TIV1c, or TIV2c, the incidence of adverse reactions following the second dose of vaccine were similar to those observed with the first dose.

Unsolicited adverse events were collected for 21 days after last vaccination. In children 4 through 17 years of age, unsolicited adverse events were reported in 24.3% of subjects who received FLUCELVAX QUADRIVALENT, within 3 weeks after last vaccination.

In children 4 through 17 years of age, serious adverse events (SAEs) were collected throughout the study duration (until 6 months after last vaccination) and were reported by 0.5% of the subjects who received FLUCELVAX QUADRIVALENT. None of the SAEs were assessed as being related to study vaccine.

6.2 Postmarketing Experience

The following additional adverse events have been identified during post-approval use of FLUCELVAX QUADRIVALENT. Because these events are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to the vaccine.

Immune system disorders: Allergic or immediate hypersensitivity reactions, including anaphylactic shock.

Nervous systems disorders: Syncope, presyncope, paresthesia.

Skin and subcutaneous tissue disorders: Generalized skin reactions including pruritus, urticaria or non-specific rash.

General disorders and administration site conditions: Extensive swelling of injected limb.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Exposure Registry

There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to FLUCELVAX QUADRIVALENT during pregnancy. Women who are vaccinated with FLUCELVAX QUADRIVALENT during pregnancy are encouraged to enroll in the registry by calling 1-855-358-8966 or sending an email to Seqirus at us.medicalinformation@seqirus.com.

Risk Summary

All pregnancies have a risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively. There are insufficient data for FLUCELVAX QUADRIVALENT in pregnant women to inform vaccine-associated risks in pregnancy.

There were no developmental toxicity studies of FLUCELVAX QUADRIVALENT performed in animals. A developmental toxicity study has been performed in female rabbits administered FLUCELVAX (trivalent formulation) prior to mating and during gestation. The dose was 0.5 mL on each occasion (a single human dose is 0.5 mL). This study revealed no evidence of harm to the fetus due to FLUCELVAX (trivalent formulation) (see 8.1 Data).

Clinical Considerations

Disease-associated Maternal and/or Embryo-Fetal Risk

Pregnant women are at increased risk for severe illness due to influenza compared to non-pregnant women. Pregnant women with influenza may be at increased risk for adverse pregnancy outcomes,

including preterm labor and delivery.

Data

Animal Data

In a developmental toxicity study, female rabbits were administered of FLUCELVAX (trivalent formulation) by intramuscular injection 1, 3, and 5 weeks prior to mating, and on gestation days 7 and 20. The dose was 0.5 mL on each occasion (a single human dose is 0.5 mL). No vaccine-related fetal malformations or variations and no adverse effects on pre-weaning development were observed in the study.

8.2 Lactation

Risk Summary

It is not known whether FLUCELVAX QUADRIVALENT is excreted in human milk. Data are not available to assess the effects of FLUCELVAX QUADRIVALENT on the breastfed infant or on milk production/excretion.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for FLUCELVAX QUADRIVALENT and any potential adverse effects on the breastfed child from FLUCELVAX QUADRIVALENT or from the underlying maternal condition. For preventive vaccines, the underlying maternal condition is susceptibility to disease prevented by the vaccine or the effects on milk production.

8.4 Pediatric Use

Safety and effectiveness have not been established in children less than 4 years of age.

8.5 Geriatric Use

Of the total number of subjects who received one dose of FLUCELVAX QUADRIVALENT in clinical studies and included in the safety population (2493), 26.47% (660) were 65 years of age and older and 7.7% (194) were 75 years of age or older.

Antibody responses to FLUCELVAX QUADRIVALENT were lower in the geriatric (adults 65 years and older) population than in younger subjects. [*see Clinical Studies (14.3)*]

11 DESCRIPTION

FLUCELVAX QUADRIVALENT (Influenza Vaccine) is a subunit influenza vaccine manufactured using cell derived candidate vaccine viruses (CVV) that are propagated in Madin Darby Canine Kidney (MDCK) cells, a continuous cell line. These cells were adapted to grow freely in suspension in culture medium. The virus is inactivated with β -propiolactone, disrupted by the detergent cetyltrimethylammonium bromide and purified through several process steps. Each of the 4 virus strains is produced and purified separately then pooled to formulate the quadrivalent vaccine.

FLUCELVAX QUADRIVALENT is a sterile, slightly opalescent suspension in phosphate buffered saline. FLUCELVAX QUADRIVALENT is standardized according to United States Public Health Service requirements for the 2019-2020 influenza season and is formulated to contain a total of 60 micrograms (mcg) hemagglutinin (HA) per 0.5 mL dose in the recommended ratio of 15 mcg HA of each of the following four influenza strains:

A/Idaho/07/2018 (an A/Brisbane/02/2018 (H1N1)pdm09-like virus)

A/Indiana/08/2018 (an A/Kansas/14/2017 (H3N2)-like virus)

B/Iowa/06/2017 (a B/Colorado/06/2017-like virus)

B/Singapore/INFTT-16-0610/2016 (a B/Phuket/3073/2013-like virus)

Each dose of FLUCELVAX QUADRIVALENT may contain residual amounts of MDCK cell protein (\leq 25.2 mcg), protein other than HA (\leq 240 mcg), MDCK cell DNA (\leq 10 ng), polysorbate 80 (\leq 1500 mcg), cetyltrimethlyammonium bromide (\leq 18 mcg), and β -propiolactone (<0.5 mcg), which are used in the manufacturing process.

FLUCELVAX QUADRIVALENT contains no egg protein or antibiotics.

FLUCELVAX QUADRIVALENT 0.5 mL pre-filled syringes contain no preservative.

FLUCELVAX QUADRIVALENT 5 mL multi-dose vials contain thimerosal, a mercury derivative, added as a preservative. Each 0.5 mL dose from the multi-dose vial contains 25 mcg mercury.

The tip caps and plungers of the prefilled syringes and the multi-dose vial stopper are not made with natural rubber latex.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Influenza illness and its complications follow infection with influenza viruses. Global surveillance and analysis of influenza virus isolates permits identification of yearly antigenic variants. Since 1977, antigenic variants of influenza A (H1N1 and H3N2) viruses and influenza B viruses have been in global circulation. Specific levels of hemagglutination inhibition (HI) antibody titers induced by vaccination with inactivated influenza virus vaccine have not been correlated with protection from influenza illness. In some studies, HI antibody titers of $\geq 1:40$ have been associated with protection from influenza illness in up to 50% of subjects. 2,3

Antibody against one influenza virus type or subtype confers little or no protection against another. Furthermore, antibody to one antigenic variant of influenza virus might not protect against a new antigenic variant of the same type or subtype. Frequent development of antigenic variants through antigenic drift is the virologic basis for seasonal epidemics and the reason for the usual change of one or more strains in each year's influenza vaccine. Therefore, inactivated influenza vaccines are standardized to contain the hemagglutinin of influenza virus strains representing the influenza viruses likely to circulate in the United States in the upcoming winter.

Annual influenza vaccination is recommended by the Advisory Committee on Immunization Practices because immunity declines during the year after vaccination, and because circulating strains of influenza virus change from year to year.⁴

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

FLUCELVAX QUADRIVALENT has not been evaluated for carcinogenic or mutagenic potential, or for impairment of male fertility in animals.

FLUCELVAX (trivalent formulation) administered to female rabbits had no effect on fertility [see Use in Specific Population (8.1)]

14 CLINICAL STUDIES

14.1 Efficacy against Culture-Confirmed Influenza

The efficacy experience with FLUCELVAX is relevant to FLUCELVAX QUADRIVALENT because both vaccines are manufactured using the same process and have overlapping compositions.

A multinational (US, Finland, and Poland), randomized, observer-blind, placebo-controlled trial was performed to assess clinical efficacy and safety of FLUCELVAX during the 2007-2008 influenza

season in adults aged 18 through 49 years. A total of 11,404 subjects were enrolled to receive FLUCELVAX (N=3828), AGRIFLU (N=3676) or placebo (N=3900) in a 1:1:1 ratio. Among the overall study population enrolled, the mean age was 33 years, 55% were female, 84% were Caucasian, 7% were Black, 7% were Hispanic, and 2% were of other ethnic origin.

FLUCELVAX efficacy was assessed by the prevention of culture-confirmed symptomatic influenza illness caused by viruses antigenically matched to those in the vaccine and prevention of influenza illness caused by all influenza viruses compared to placebo. Influenza cases were identified by active and passive surveillance of influenza-like illness (ILI). ILI was defined as a fever (oral temperature ≥100.0°F / 38°C) and cough or sore throat. Nose and throat swab samples were collected for analysis within 120 hours of onset of an influenza-like illness in the period from 21 days to 6 months after vaccination. Overall vaccine efficacy against all influenza viral subtypes and vaccine efficacy against individual influenza viral subtypes were calculated (Tables 5 and 6, respectively).

Table 5: Vaccine Efficacy against Culture-Confirmed Influenza

	Number of subjects per protocol	Number of subjects with influenza	Attack Rate (%)	Vaccine Efficacy (VE) ^{1,2}			
				%	Lower Limit of One- Sided 97.5% CI of VE ^{2,} 3		
Antigenically Matched Str	ains						
FLUCELVAX	3776	7	0.19	83.8	61.0		
Placebo	3843	44	1.14				
All Culture-Confirmed Int	All Culture-Confirmed Influenza						
FLUCELVAX	3776	42	1.11	69.5	55.0		
Placebo	3843	140	3.64				

¹Efficacy against influenza was evaluated over a 9-month period in 2007/2008

Study: NCT00630331

Table 6: Efficacy of FLUCELVAX against Culture-Confirmed Influenza by Influenza Viral Subtype

	FLUCELVAX (N=3776)		Placebo (N=3843)		Vaccine Ef	ficacy (VE) ²		
	Attack Rate (%)	Number of Subjects with Influenza	Attack Rate (%)	Number o Subjects wi Influenza	th	Lower Limit of One-Sided 97.5% CI of VE ^{1,2}		
		An	tigenicall	y Matched S	trains			
A/H3N2 ³	0.05	2	0	0				
A/H1N1	0.13	5	1.12	43	88.2	67.4		
B^3	0	0	0.03	1				
	All Culture-Confirmed Influenza							
A/H3N2	0.16	6	0.65	25	75.6	35.1		
A/H1N1	0.16	6	1.48	57	89.3	73.0		

²Simultaneous one-sided 97.5% confidence intervals for the vaccine efficacy (VE) of FLUCELVAX relative to placebo based on the Sidak-corrected score confidence intervals for the relative risk. Vaccine Efficacy = (1 - Relative Risk) x 100 %

 $^{^3}$ VE success criterion: the lower limit of the one-sided 97.5% CI for the estimate of the VE relative to placebo is $^{>40}$ %

В	0.79	30	1.59	61	49.9	18.2

¹No VE success criterion was prespecified in the protocol for each individual influenza virus subtype.

Study: NCT00630331

There are no data demonstrating prevention of influenza disease after vaccination with FLUCELVAX in the pediatric age group.

14.2 Immunogenicity of FLUCELVAX QUADRIVALENT in Adults 18 years of age and above

Immunogenicity of FLUCELVAX QUADRIVALENT was evaluated in adults 18 years of age and older in a randomized, double-blind, controlled study conducted in the US (Study 1). In this study, subjects received FLUCELVAX QUADRIVALENT or one of the two formulations of comparator trivalent influenza vaccine (FLUCELVAX QUADRIVALENT (N=1334), TIV1c, N=677 or TIV2c, N=669). In the per protocol set, the mean age of subjects who received FLUCELVAX QUADRIVALENT was 57.5 years; 55.1% of subjects were female and 76.1% of subjects were Caucasian, 13% were black and 9% were Hispanics. The immune response to each of the vaccine antigens was assessed, 21 days after vaccination.

The immunogenicity endpoints were geometric mean antibody titers (GMTs) of hemagglutination inhibition (HI) antibodies response and percentage of subjects who achieved seroconversions, defined as a pre-vaccination HI titer of <1:10 with a post-vaccination titer $\ge 1:40$ or a pre-vaccination HI titer >1:10 and at least 4-fold increase in serum HI antibody titer.

FLUCELVAX QUADRIVALENT was noninferior to TIVc. Noninferiority was established for all 4 influenza strains included in the QIVc, as assessed by ratios of GMTs and the differences in the percentages of subjects achieving seroconversion at 3 weeks following vaccination. The antibody response to influenza B strains contained in FLUCELVAX QUADRIVALENT was superior to the antibody response after vaccination with TIVc containing an influenza B strain from the alternate lineage. There was no evidence that the addition of the second influenza B strain resulted in immune interference to other strains included in the vaccine. (See Table 7)

Table 7: Noninferiority of FLUCELVAX QUADRIVALENT relative to TIVc in adults 18 Years of Age and Above– Per Protocol Analysis Set [Study 1]

		FLUCELVAX QUADRIVALENT N = 1250	TIV1c/TIV2c ¹ N = 635/N =639	Vaccine Group Ratio (95% CI)	Vaccine Group Difference (95% CI)
	GMT 95% CI)	302.8 (281.8-325.5)	298.9 (270.3-330.5)	1.0 (0.9- 1.1)	-
R	conversion Rate ² 95% CI)	49.2% (46.4-52.0)	48.7% (44.7-52.6)	-	-0.5% (-5.3- 4.2)
_	GMT 95% CI)	372.3 (349.2-396.9)	378.4 (345.1-414.8)	1.0 (0.9- 1.1)	-
R	conversion Rate ² 95% CI)	38.3% (35.6-41.1)	35.6% (31.9-39.5)	-	-2.7% (-7.2- 1.9)
(95	GMT 95% CI)	133.2 (125.3-141.7)	115.6 (106.4-125.6)	0.9 (0.8- 1.0)	-
3N2 Seroco R (95	conversion Rate ² 95% CI) GMT	38.3% (35.6-41.1) 133.2	35.6% (31.9-39.5) 115.6	0.9	

² Simultaneous one-sided 97.5% confidence intervals for the vaccine efficacy (VE) of FLUCELVAX relative to placebo based on the Sidak-corrected score confidence intervals for the relative risk. Vaccine Efficacy = (1 - Relative Risk) x 100 %;

³ There were too few cases of influenza due to vaccine-matched influenza A/H3N2 or B to adequately assess vaccine efficacy.

DI	Rate ² (95% CI)	36.6% (33.9-39.3)	34.8% (31.1-38.7)	-	-1.8% (-6.2- 2.8)
DO	GMT (95% CI)	177.2 (167.6-187.5)	164.0 (151.4-177.7)	0.9 (0.9- 1.0)	1
B2	Seroconversion Rate ² (95% CI)	39.8% (37.0-42.5)	35.4% (31.7-39.2)	-	-4.4% (-8.9 -0.2)

Abbreviations: HI = hemagglutination inhibition. PPS = per protocol set. GMT = geometric mean titer. CI = confidence interval.

Study 1: NCT01992094

14.3 Immunogenicity in Children and Adoles cents 4 through 17 years of age

Immunogenicity of FLUCELVAX QUADRIVALENT was evaluated in children 4 through 17 years of age in a randomized, double-blind, controlled study conducted in the US (Study 2). (See section 6.1) In this study, 1159 subjects received FLUCELVAX QUADRIVALENT. In the per protocol set, the mean age of subjects who received FLUCELVAX QUADRIVALENT was 9.8 years; 47% of subjects were female and 54% of subjects were Caucasian, 22% were black and 19% were Hispanics. The immune response to each of the vaccine antigens was assessed, 21 days after vaccination.

The immunogenicity endpoints were the percentage of subjects who achieved seroconversion, defined as a pre-vaccination hemagglutination inhibition (HI) titer of <1:10 with a post-vaccination HI titer $\ge 1:40$ or at least a 4-fold increase in serum HI titer; and percentage of subjects with a post-vaccination HI titer $\ge 1:40$.

In subjects receiving FLUCELVAX QUADRIVALENT, for all four influenza strains, the 95% LBCI seroconversion rates were \geq 40% and the percentage of subjects who achieved HI titer \geq 1:40 post vaccination were \geq 70% (95% LBCI). (See Table 8)

Table 8: The Percentage of Children and Adoles cents 4 through 17 years of Age with Seroconversion 1 and HI Titers \geq 1:40 post vaccination with FLUCELVAX QUADRIVALENT—Per-Protocol Analysis Set 2 [Study 2]

		FLUCELVAX QUADRIVALENT
		N = 1014
A/H1N1	Seroconversion Rate ¹ (95% CI)	72% (69-75)
	HI titer≥1:40	99% (98-100)
		N = 1013
A/H3N2	Seroconversion Rate ¹ (95% CI)	47% (44-50)
	HI titer≥1:40	100% (99-100)
		N = 1013
B1	Seroconversion Rate ¹ (95% CI)	66% (63-69)
	HI titer≥1:40	92% (91-94)
		N = 1009
B 2	Seroconversion Rate ¹ (95% CI)	73% (70-76)
	HI titer≥1:40	91% (89-93)

Abbreviations: HI = hemagglutinin inhibition. CI = confidence interval.

¹Per protocol set: All subjects in Full Analysis Set, immunogenicity population, who has correctly received the assigned vaccine, have no major protocol deviations leading to exclusion as defined prior to unblinding/ analysis and are not excluded due to other reasons defined prior to unblinding or analysis.

²The comparator vaccine for noninferiority comparisons for A/H1N1, A/H3N2 and B1 is TIV1c, for B2 it is TIV2c. ³ Seroconversion rate = percentage of subjects with either a pre-vaccination HI titer < 1:10 and post-vaccination HI titer ≥ 1:40 or with a pre-vaccination HI titer ≥ 1:10 and a minimum 4-fold increase in post-vaccination HI antibody titer

Analyses are performed on data for day 22 for previously vaccinated subjects and day 50 for not previously vaccinated subjects.

Study 2: NCT 01992107

15 REFERENCES

- 1. Lasky T, Terracciano GJ, Magder L, et al. The Guillain-Barré syndrome and the 1992-1993 and 1993-1994 influenza vaccines. *N Engl J Med* 1998; 339(25):1797-1802.
- 2. Hannoun C, Megas F, Piercy J. Immunogenicity and protective efficacy of influenza vaccination. *Virus Res* 2004; 103:133-138.
- 3. Hobson D, Curry RL, Beare A, etal. The role of serum hemagglutinin-inhibiting antibody in protection against challenge infection with influenza A2 and B viruses. *J Hyg Camb* 1972; 767-777.
- 4. Centers for Disease Control and Prevention. Prevention and Control of Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices (ACIP). *MMWR* 2011; 60(33): 1128-1132.

16 HOW SUPPLIED / STORAGE AND HANDLING

FLUCELVAX QUADRIVALENT product presentations are listed in Table 9 below:

Presentation	Carton NDC Number	Components	
Pre-filled Syringe	70461-319-03	0.5 mL single dose pre-filled syringe, package of 10 syringes per carton [NDC 70461-319-04]	
Multi-dose Vial	70461-419-10	5 mL multi-dose vial, individually packaged in a carton [NDC 70461-419-11]	

Table 9: Flucelvax Product Presentations

Store this product refrigerated at 2°C to 8°C (36°F to 46°F). Between uses, return the multi-dose vial to the recommended storage conditions. Do not freeze. Protect from light. Do not use after the expiration date.

17 PATIENT COUNSELING INFORMATION

Inform vaccine recipients of the potential benefits and risks of immunization with FLUCELVAX QUADRIVALENT.

Educate vaccine recipients regarding the potential side effects; clinicians should emphasize that (1) FLUCELVAX QUADRIVALENT contains non-infectious particles and cannot cause influenza and (2) FLUCELVAX QUADRIVALENT is intended to provide protection against illness due to influenza viruses only, and cannot provide protection against other respiratory illnesses.

Instruct vaccine recipients to report adverse reactions to their healthcare provider.

Encourage women who receive FLUCELVAX QUADRIVALENT while pregnant to enroll in the pregnancy registry. Pregnant women can enroll in the pregnancy registry by calling 1-855-358-8966 or

¹ Seroconversion rate = percentage of subjects with either a pre-vaccination HI titer < 1:10 and post-vaccination HI titer ≥ 1:40 or with a pre-vaccination HI titer ≥ 1:10 and a minimum 4-fold increase in post-vaccination HI titer. Immunogenicity success criteria were met if the lower limit of the 95% confidence interval (CI) of the percentage of subjects with HI titer ≥1:40 is ≥70%; and the lower limit of the 95% CI of the percentage of subjects with seroconversion is ≥40%.

²Per protocol set: All subjects in Full Analysis Set, immunogenicity population, who has correctly received the assigned vaccine, have no major protocol deviations leading to exclusion as defined prior to unblinding/ analysis and are not excluded due to other reasons defined prior to unblinding or analysis.

sending an email to Seqirus at us.medicalinformation@seqirus.com.

Provide vaccine recipients with the Vaccine Information Statements which are required by the National Childhood Vaccine Injury Act of 1986. These materials are available free of charge at the Centers for Disease Control and Prevention (CDC) website (www.cdc.gov/vaccines).

Inform vaccine recipients that annual vaccination is recommended.

FLUCELVAX QUADRIVALENT is a registered trademark of Seqirus UK Limited or its affiliates.

Manufactured by: **Seqirus Inc.** Holly Springs, NC 27540, USA

US License No. 2049

Distributed by: **Seqirus USA Inc.** 25 Deforest Avenue, Summit, NJ 07901, USA

1-855-358-8966

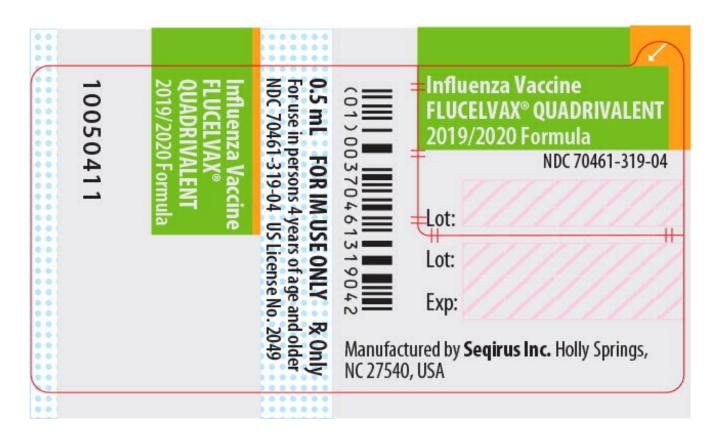
Principal Display Panel - Flucelvax Quadrivalent Injection Suspension 2019-2020 0.5 mL Syringe Label

Influenza Vaccine

FLUCELVAX® QUADRIVALENT

2019/2020 Formula

NDC 70461-319-04



Principal Display Panel - Flucelvax Quadrivalent Injection Suspension 2019-2020 0.5 mL Carton Label

NDC 70461-319-03

For use in persons 4 years of age and older

For Intramuscular Injection Only

Ten 0.5 mL, single-dose, prefilled syringes
Rx Only
Influenza Vaccine
FLUCELVAX®
QUADRIVALENT
2019/2020 FORMULA



Principal Display Panel - Flucelvax Quadrivalent Injection Suspension 2019-2020 5 mL Syringe Label

NDC 70461-419-11 Influenza Vaccine FLUCELVAX® QUADRIVALENT 2019/2020 Formula 5mL vial



Principal Display Panel - Flucelvax Quadrivalent Injection Suspension 2019-2020 5 mL Carton Label

NDC 70461-419-10

5 mL vial

Rx Only

Segirus TM

For use in persons 4 years of age and older

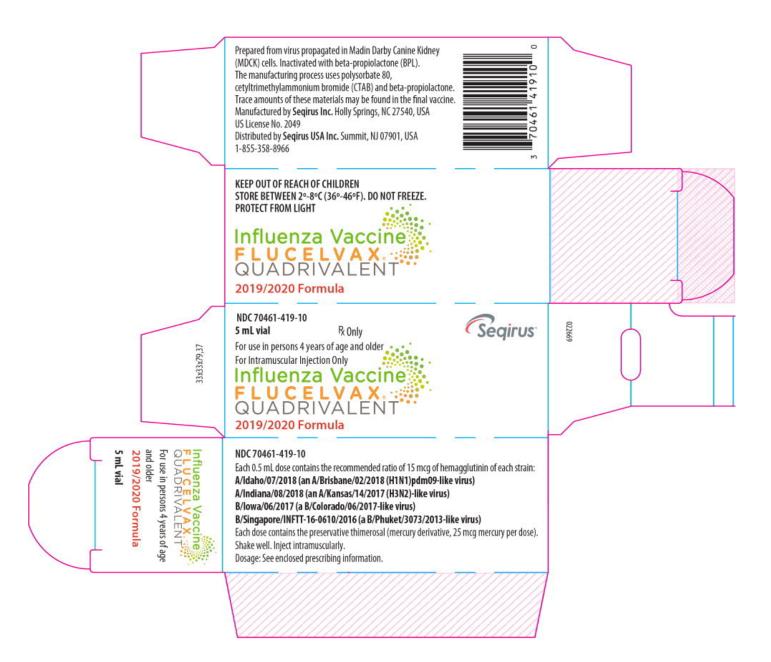
For Intramuscular Injection Only

Influenza Vaccine

FLUCELVAX®

QUADRIVALENT

2019/2020 Formula



FLUCELVAX QUADRIVALENT (PREFILLED SYRINGE)

influenza a virus a/idaho/07/2018 (h1n1) antigen (mdck cell derived, propiolactone inactivated, influenza a virus a/indiana/08/2018 (h3n2) antigen (mdck cell derived, propiolactone inactivated), influenza b virus b/singapore/inftt-16-0610/2016 antigen (mdck cell derived, propiolactone inactivated), influenza b virus b/iowa/06/2017 antigen (mdck cell derived, propiolactone inactivated) injection, suspension

Product Information						
Product Type	VACCINE	Item Code (Sou	ırce)	NDC:70461-3	319	
Route of Administration	INTRAMUSCULAR					
Active Ingredient/Active Moiety						
Inquedient Neme Pacie of Strongth Strongth						

Ingredient Name	Basis of Strength	Strength
INFLUENZA A VIRUS A/IDAHO/07/2018 (H1N1) ANTIGEN (MDCK CELL DERIVED, PRO PIO LACTO NE INACTIVATED (UNII: Z6 Y9 Y35SOY) (INFLUENZA A VIRUS A/IDAHO/07/2018 (H1N1) HEMAGGLUTININ ANTIGEN (MDCK CELL DERIVED	INFLUENZA A VIRUS A/IDAHO/07/2018 (H1N1) ANTIGEN (MDCK CELL	15 ug in 0.5 mL

PROPIOLACTONE INACTIVATED) - UNII:CJ7119 YK1W)	INACTIVATED	
INFLUENZA A VIRUS A/INDIANA/08/2018 (H3N2) ANTIGEN (MDCK CELL DERIVED, PRO PIO LACTO NE INACTIVATED) (UNII: Z5EJE3EP8T) (INFLUENZA A VIRUS A/INDIANA/08/2018 (H3N2) HEMAGGLUTININ ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED) - UNII:4T55W47JOL)	INFLUENZA A VIRUS A/INDIANA/08/2018 (H3N2) ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED)	15 ug in 0.5 mL
INFLUENZA B VIRUS B/SINGAPORE/INFTT-16-0610/2016 ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED) (UNII: G4VX46P9M6) (INFLUENZA B VIRUS B/SINGAPORE/INFTT-16-0610/2016 HEMAGGLUTININ ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED) - UNII:0JXM8X6ZW8)	INFLUENZA B VIRUS B/SINGAPORE/INFTT-16- 0610/2016 ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED)	15 ug in 0.5 mL
INFLUENZA B VIRUS B/IO WA/06/2017 ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED) (UNII: CA1YT4NE3M) (INFLUENZA B VIRUS B/IO WA/06/2017 HEMAGGLUTININ ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED) - UNII:HW5XP554J1)	INFLUENZA B VIRUS B/IOWA/06/2017 ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED)	15 ug in 0.5 mL

Inactive Ingredients	
Ingredient Name	Strength
POTASSIUM CHLORIDE (UNII: 660 YQ98 I10)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
MAGNESIUM CHLORIDE (UNII: 02F3473H9O)	
SO DIUM PHO SPHATE, DIBASIC, DIHYDRATE (UNII: 9425516 E2T)	
POTASSIUM PHOSPHATE, MONOBASIC (UNII: 4J9FJ0HL51)	
WATER (UNII: 059QF0KO0R)	

Packaging				
# Item Code	Package Description	Marketing Start Date	Marketing End Date	
NDC:70461- 319-03	10 in 1 CARTON			
NDC:70461- 319-04	0.5 mL in 1 SYRINGE, GLASS; Type 3: Prefilled Biologic Delivery Device/System (syringe, patch, etc.)			

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA125408	05/23/2016	07/31/2020	

FLUCELVAX QUADRIVALENT (MULTI-DOSE VIAL)

influenza a virus a/idaho/07/2018 (h1n1) antigen (mdck cell derived, propiolactone inactivated, influenza a virus a/indiana/08/2018 (h3n2) antigen (mdck cell derived, propiolactone inactivated), influenza b virus b/singapore/inftt-16-0610/2016 antigen (mdck cell derived, propiolactone inactivated), influenza b virus b/iowa/06/2017 antigen (mdck cell derived, propiolactone inactivated) injection, suspension

Product Information			
Product Type	VACCINE	Item Code (Source)	NDC:70461-419

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
INFLUENZA A VIRUS A/IDAHO/07/2018 (H1N1) ANTIGEN (MDCK CELL DERIVED, PRO PIO LACTO NE INACTIVATED (UNII: Z6 Y9 Y35SOY) (INFLUENZA A VIRUS A/IDAHO/07/2018 (H1N1) HEMAGGLUTININ ANTIGEN (MDCK CELL DERIVED, PRO PIO LACTO NE INACTIVATED) - UNII:CJ7119 YK1W)	INFLUENZA A VIRUS A/IDAHO/07/2018 (H1N1) ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED	15 ug in 0.5 mL	
INFLUENZA A VIRUS A/INDIANA/08/2018 (H3N2) ANTIGEN (MDCK CELL DERIVED, PRO PIO LACTO NE INACTIVATED) (UNII: Z5EJE3EP8T) (INFLUENZA A VIRUS A/INDIANA/08/2018 (H3N2) HEMAGGLUTININ ANTIGEN (MDCK CELL DERIVED, PRO PIO LACTO NE INACTIVATED) - UNII:4T55W47JOL)	INFLUENZA A VIRUS A/INDIANA/08/2018 (H3N2) ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED)	15 ug in 0.5 mL	
INFLUENZA B VIRUS B/SINGAPORE/INFTT-16-0610/2016 ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED) (UNII: G4VX46P9M6) (INFLUENZA B VIRUS B/SINGAPORE/INFTT-16-0610/2016 HEMAGGLUTININ ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED) - UNII:0JXM8X6ZW8)	INFLUENZA B VIRUS B/SINGAPORE/INFTT-16- 06 10/20 16 ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED)	15 ug in 0.5 mL	
INFLUENZA B VIRUS B/IO WA/06/2017 ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED) (UNII: CA1YT4NE3M) (INFLUENZA B VIRUS B/IOWA/06/2017 HEMAGGLUTININ ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED) - UNII:HW5XP554J1)	INFLUENZA B VIRUS B/IOWA/06/2017 ANTIGEN (MDCK CELL DERIVED, PROPIOLACTONE INACTIVATED)	15 ug in 0.5 mL	

Inactive Ingredients	
Ingredient Name	Strength
POTASSIUM CHLORIDE (UNII: 660 YQ98 I10)	
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
MAGNESIUM CHLO RIDE (UNII: 02F3473H9O)	
SO DIUM PHO SPHATE, DIBASIC, DIHYDRATE (UNII: 9425516 E2T)	
POTASSIUM PHOSPHATE, MONOBASIC (UNII: 4J9 FJ0 HL51)	
THIMERO SAL (UNII: 2225PI3MOV)	
WATER (UNII: 059QF0KO0R)	

ı	Packaging				
	# Item Code	Package Description	Marketing Start Date	Marketing End Date	
	1 NDC:70461-419-	1 in 1 CARTON			
	1 NDC:70461-419-	5 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product			

Marketing Information					
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date		
BLA	BLA125408	05/23/2016	07/31/2020		

Establishment				
Name	Address	ID/FEI	Business Operations	
Seqirus, Inc.		080102141	API MANUFACTURE, MANUFACTURE, LABEL, PACK, ANALYSIS	

Revised: 9/2019 Seqirus, Inc.