

CELVAPAN

Pandemic influenza vaccine (whole virion, Vero cell derived, inactivated) suspension for injection

QUALITATIVE AND QUANTITATIVE COMPOSITION

Whole virion influenza vaccine, inactivated containing antigen of pandemic strain*:
A/California/07/2009 (H1N1) 7.5 micrograms** per 0.5 mL dose.

* propagated in Vero cells (continuous cell line of mammalian origin)

** expressed in micrograms haemagglutinin.

This vaccine complies with the WHO recommendation and EU decision for the pandemic.

This is a multidose container. See *Nature and Contents of the Container* for the number of doses per vial.

For a full list of excipients, see *List of Excipients*.

PHARMACEUTICAL FORM

Suspension for injection.

The vaccine is an off-white, opalescent, translucent suspension.

CLINICAL PARTICULARS

Therapeutic indications

Prophylaxis of influenza in an officially declared pandemic situation. Pandemic influenza vaccine should be used in accordance with official guidance.

Posology and method of administration

This pandemic influenza vaccine H1N1 has been authorised based on data obtained with a version containing H5N1 antigen supplemented with data obtained with the vaccine containing H1N1 antigen. The Clinical Particulars section will be updated in accordance with emerging additional data.

From clinical studies limited safety data are available for Celvapan (H1N1) in healthy adult and elderly subjects and in children (see *Special Warnings and Precautions for Use and Undesirable Effects*).

The decision to use CELVAPAN (H1N1) in each age group defined below should take into account the extent of the clinical data available with a version of the vaccine

containing H5N1 antigen and the disease characteristics of the current influenza pandemic.

The dose recommendations are based on the available safety and immunogenicity data from clinical trials with CELVAPAN (adults, elderly and children and adolescents) and H5N1 (A/Vietnam/1203/2004; adults and elderly) where two doses of vaccine containing 7.5µg HA of either H1N1 or H5N1 were administered 21 days apart.

See *Special Warnings and Precautions for Use, Undesirable Effects and Pharmacodynamic Properties*.

Posology

Adults and elderly

One dose of 0.5 ml at an elected date.

A second dose of vaccine should be given after an interval of at least three weeks.

Children and adolescents aged 9 to 17 years of age

One dose of 0.5 ml at an elected date.

A second dose of vaccine should be given after an interval of at least three weeks.

Children aged 6 months to 8 years of age

Limited data are available in children 6 months to 8 years of age. Should vaccination be considered necessary, the experience with similarly constructed vaccines suggests that dosing in accordance with the adult dose may be appropriate.

The dosing used should take into account the extent of data and disease characteristics of the current influenza pandemic. Preliminary analysis of immunogenicity data from one clinical trial in children aged 6 months to 17 years suggests that an adequate immune response is achieved in this age group.

Children aged less than 6 months

Vaccination is not currently recommended in this age group.

For further information, see *Undesirable Effects and Pharmacodynamic Properties*.

It is recommended that subjects who receive a first dose of CELVAPAN, complete the vaccination course with CELVAPAN (see *Special Warnings and Precautions for Use*).

Method of administration

Immunisation should be carried out by intramuscular injection preferably into the deltoid muscle or anterolateral thigh, depending on the muscle mass.

Contraindications

History of an anaphylactic (i.e. life-threatening) reaction to any of the constituents or trace residues (e.g. formaldehyde, benzonase, sucrose) of this vaccine. However, if vaccination is considered necessary, it may be appropriate to give the vaccine, provided that facilities for resuscitation are immediately available in case of need.

See *Special Warnings and Precautions for Use*.

Special warnings and precautions for use

Caution is needed when administering this vaccine to persons with a known hypersensitivity (other than anaphylactic reaction) to the active substance(s), to any of the excipients and to trace residues e.g. formaldehyde, benzonase, or sucrose.

Hypersensitivity reactions, including anaphylaxis, have been reported following vaccination with Baxter's H5N1 vaccine (see *Undesirable Effects*). Such reactions have occurred both in patients with a history of multiple allergies and in patients with no known allergy.

As with all injectable vaccines, appropriate medical treatment and supervision should always be readily available in case of a rare anaphylactic event following the administration of the vaccine.

If the pandemic situation allows, immunisation shall be postponed in patients with severe febrile illness or acute infection.

CELVAPAN should under no circumstances be administered intravascularly.

There are no data with CELVAPAN using the subcutaneous route. Therefore, healthcare providers need to assess the benefits and potential risks of administering the vaccine in individuals with thrombocytopenia or any bleeding disorder that would contraindicate intramuscular injection unless the potential benefit outweighs the risk of bleedings.

Antibody response in patients with endogenous or iatrogenic immunosuppression may be insufficient.

A protective response may not be induced in all vaccinees (see *Pharmacodynamic Properties*).

There are no safety, immunogenicity or efficacy data to support interchangeability of CELVAPAN with other H1N1 pandemic vaccines.

Interactions with other medicinal products and other forms of interaction

There are no data on co-administration of CELVAPAN with other vaccines. However, if co-administration with another vaccine is indicated, immunisation should be carried

out on separate limbs. It should be noted that the adverse reactions may be intensified.

The immunological response may be diminished if the patient is undergoing immunosuppressant treatment.

Following influenza vaccination, published literature have reported false positive results in serology tests using the ELISA method to detect antibodies against HIV1, Hepatitis C and especially HTLV1 have been observed. The Western Blot technique disproves the results.

Pregnancy and lactation

The safety of CELVAPAN in pregnancy and lactation has not been assessed in clinical trials. Animal studies with H5N1 strain vaccines (A/Vietnam/1203/2004 and A/Indonesia/05/2005) do not indicate direct or indirect harmful effects with respect to fertility, pregnancy, embryonal/fetal development, parturition or post-natal development (see *Preclinical Safety Data*). Physicians should carefully consider the potential risks and benefits for each specific patient before prescribing CELVAPAN.

(see *Preclinical Safety Data*).

The use of CELVAPAN may be considered during pregnancy if this is thought to be necessary, taking into account official recommendations.

Effects on ability to drive and use machines

Some undesirable effects such as dizziness and vertigo may affect the ability to drive or use machines.

Undesirable effects

- Clinical trials with H5N1 mock-up vaccine

In clinical trials with the mock-up vaccine using an H5N1 vaccine strain (see *Pharmacodynamic Properties*) in 3576 subjects (3116 between 18 and 59 years old, and 460 aged 60 and above), the following adverse reactions were assessed as at least possibly related by the investigator. Most of the reactions were mild in nature, of short duration and qualitatively similar to those induced by influenza vaccines. There were fewer reactions after the second dose of the vaccine compared with the first dose. The most frequently occurring adverse reaction was injection site pain, which was usually mild.

Adverse reactions from clinical trials with the mock-up vaccine are listed below (see *Pharmacodynamic Properties* for more information on mock-up vaccines).

Adverse reactions are listed according to the following frequency.

Very common ($\geq 1/10$)

Common ($\geq 1/100$ to $< 1/10$)

Uncommon ($\geq 1/1,000$ to $< 1/100$)

Rare ($\geq 1/10,000$ to $< 1/1,000$)

Very rare ($< 1/10,000$).

Not known (cannot be estimated from the available data)

Infections and infestations

Common: nasopharyngitis

Blood and the lymphatic system disorders

Uncommon: lymphadenopathy

Psychiatric disorders

Uncommon: insomnia, restlessness

Nervous system disorders

Common: headache, dizziness

Uncommon: somnolence, dysaesthesia, paresthesia

Eye disorders

Uncommon: conjunctivitis

Ear and labyrinth disorders

Common: vertigo

Uncommon: sudden hearing loss

Rare: ear pain

Vascular disorders

Uncommon: hypotension

Respiratory, thoracic and mediastinal disorders

Common: pharyngolaryngeal pain

Uncommon: dyspnoea, cough, rhinorrhoea, nasal congestion, dry throat

Gastrointestinal disorders

Uncommon: gastro-intestinal symptoms (such as nausea, vomiting, diarrhoea and upper abdominal pain)

Skin and subcutaneous tissue disorders

Common: hyperhidrosis

Uncommon: rash, pruritus, urticaria

Musculoskeletal and connective tissue disorders

Common: arthralgia, myalgia

General disorders and administration site conditions

Very common: injection site pain

Common: pyrexia, chills, fatigue, malaise, induration, erythema, swelling and haemorrhage at the injection site

Uncommon: injection site irritation

Rare: injection site movement impairment

- Clinical Trials with CELVAPAN (H1N1)

Limited preliminary safety data after the first and second dose from clinical trials in adults aged over 18 years (N=408) and after the first dose in children aged from 9 to 17 years (N=101), 3 to 8 years (N=100) and 6 to 35 months (N=96) investigating two

different dose levels (3.75µg or 7.5µg) of CELVAPAN H1N1 suggest a comparable safety profile with that reported for the influenza vaccines using a H5N1 strain.

Post-marketing surveillance

CELVAPAN H1N1

The following additional adverse reactions have been reported in the post-marketing experience in adults and children receiving CELVAPAN H1N1.

The frequency of these adverse reactions is not known.

Immune system disorder:

Anaphylactic reaction*, Hypersensitivity*

*Such reactions have been manifested by respiratory distress, hypotension, tachycardia, tachypnea, cyanosis, pyrexia, flushing, angioedema, and urticaria

Nervous system disorders:

Convulsion

Skin and subcutaneous tissue disorders:

Angioedema

Musculoskeletal and connective tissue disorders:

Pain in extremity

General disorders and administration site conditions

Influenza-like illness

Interpandemic trivalent vaccines

From post-marketing surveillance with other manufacturers' egg-derived interpandemic trivalent vaccines, the following serious adverse reactions have been reported:

Uncommon:

Generalised skin reactions

Rare:

Neuralgia, paraesthesia, convulsions, transient thrombocytopenia.

Allergic reactions, in rare cases leading to shock, have been reported.

Very rare:

Vasculitis with transient renal involvement.

Neurological disorders, such as encephalomyelitis, neuritis and Guillain Barré syndrome.

Overdose

No case of overdose has been reported.

PHARMACOLOGICAL PROPERTIES

Pharmacodynamic properties

Pharmacotherapeutic group: Influenza vaccines, ATC Code J07BB01

This section describes the clinical experience with the mock-up vaccine using a H5N1 strain (adults and elderly) following a two-dose administration and with CELVAPAN H1N1 (adults, elderly, children and adolescents) following a two-dose administration. The children and adolescent data are only available after the first dose at this time.

Mock-up vaccines contain influenza antigens that are different from those in the currently circulating influenza viruses. These antigens can be considered as 'novel' antigens and simulate a situation where the target population for vaccination is immunologically naïve. Data obtained with the mock-up vaccine will support a vaccination strategy that is likely to be used for the pandemic vaccine: clinical immunogenicity, safety and reactogenicity data obtained with mock-up vaccines are relevant for the pandemic vaccines.

Immune response against CELVAPAN H1N1

In a clinical study in adults aged 18 – 59 years (N=100) and elderly subjects aged 60 years and above (N=101) investigating the immunogenicity of the vaccine containing 7.5 mcg non-adjuvanted HA derived from strain A/California/07/2009 (H1N1) the seroprotection rate, seroconversion rate and seroconversion factor for anti-HA antibody as measured by hemagglutination inhibition (HI) were as follows:

HI Assay	21 Days After 1 st Dose			
	Total enrolled subjects		Seronegative subjects prior to vaccination	
	18 – 59 years (N=100)	60 years and above (N=101)	18 – 59 years (N=4)	60 years and above (N=4)
Seroprotection rate*	85.0%	72.3%	50.0%	75.0%
Seroconversion rate**	63.0%	33.7%	50.0%	75.0%
Seroconversion factor***	5.6	2.5	6.7	8.0

* HI titer \geq 40

** \geq 4-fold increase in HI titer or a reciprocal HI titer \geq 40 when there is no detectable titer at baseline

*** geometric mean increase

HI Assay	21 Days After 2 nd Dose			
	Total enrolled subjects		Seronegative subjects prior to vaccination	
	18 – 59 years (N=99)	60 years and above (N=101)	18 – 59 years (N=12)	60 years and above (N=7)
Seroprotection rate*	93.9%	87.1%	91.7%	71.4%
Seroconversion rate**	66.7%	43.6%	91.7%	71.4%
Seroconversion factor***	7.6	3.3	28.5	13.1

* HI titer \geq 40

** \geq 4-fold increase in HI titer or a reciprocal HI titer \geq 40 when there is no detectable titer at baseline

*** geometric mean increase

After the first vaccination the rate of subjects with neutralizing antibody titers \geq 40, seroconversion rate and seroconversion factor as measured by microneutralisation assay (MN) in adults aged 18 to 59 years and in elderly subjects aged 60 years and above were as follows:

MN Assay	21 Days After 1 st Dose			
	Total enrolled subjects		Seronegative subjects prior to vaccination	
	18 – 59 years (N=100)	60 years and above (N=101)	18 – 59 years (N=39)	60 years and above (N=34)
Seroneutralization rate*	87.0%	70.3%	74.4%	55.9%
Seroconversion rate**	80.0%	55.4%	84.6%	73.5%
Seroconversion factor***	21.3	5.0	28.8	7.1

* MN titer \geq 40

** \geq 4-fold increase in MN titer or a reciprocal MN titer \geq 40 when there is no detectable titer at baseline

*** geometric mean increase

In a clinical study in children and adolescents aged 9 – 17 years (N=52) investigating the immunogenicity of the vaccine containing 7.5 mcg non-adjuvanted HA derived from strain A/California/07/2009 (H1N1) the seroprotection rate, seroconversion rate and seroconversion factor for anti-HA antibody as measured by hemagglutination inhibition (HI) were as follows:

HI Assay	21 Days After 1 st Dose	
	Total enrolled subjects 9 – 17 years (N=52)	Seronegative subjects prior to vaccination 9 – 17 years (N=3)
Seroprotection rate*	88.5%	66.7%
Seroconversion rate**	78.8%	66.7%
Seroconversion factor***	7.4	25.4

* HI titer \geq 40

** \geq 4-fold increase in HI titer or a reciprocal HI titer \geq 40 when there is no detectable titer at baseline

*** geometric mean increase

Immune response against the vaccine strain H5N1 A/Vietnam/1203/2004

The immunogenicity of the 7.5 μ g non-adjuvanted formulation of CELVAPAN (strain A/Vietnam/1203/2004) has been evaluated in two clinical studies in adults aged 18 – 59 years (N=312) and in elderly subjects aged 60 years and older (N=272) following a 0, 21 day schedule.

After primary vaccination the seroprotection rate, seroconversion rate and seroconversion factor for anti-HA antibody as measured by single radial haemolysis (SRH) in adults aged 18 to 59 years and in elderly subjects aged 60 years and above were as follows:

SRH Assay	18 – 59 years 21 Days After		60 years and above 21 Days After	
	1 st Dose	2 nd Dose	1 st Dose	2 nd Dose
Seroprotection rate*	55.5%	65.4%	57.9%	67.7%
Seroconversion rate**	51.3%	62.1%	52.4%	62.4%
Seroconversion factor***	3.7	4.8	3.6	4.6

* SRH area \geq 25 mm²

** either SRH area \geq 25 mm² if baseline sample negative or 50% increase in SRH area if baseline sample $>$ 4 mm²

*** geometric mean increase

After primary vaccination the rate of subjects with neutralizing antibody titres $>$ 20, seroconversion rate and seroconversion factor as measured by microneutralisation assay (MN) in adults aged 18 to 59 years and in elderly subjects aged 60 years and above were as follows:

Microneutralisation assay	18 – 59 years		60 years and above	
	21 Days After		21 Days After	
	1 st Dose	2 nd Dose	1 st Dose	2 nd Dose
Seroneutralisation rate*	49.4%	73.0%	54.4%	74.1%
Seroconversion rate**	39.1%	61.9%	14.3%	26.7%
Seroconversion factor***	3.4	4.7	2.1	2.8

* MN titre \geq 20

** \geq 4-fold increase in MN titre

*** geometric mean increase

Cross-reactive Immune Response Against Related H5N1 Strains

In the phase 3 study in adults (N=265) and elderly subjects (N=270) after vaccination with the A/Vietnam/1203/2004 strain vaccine the rate of subjects with cross-neutralising antibodies as measured by MN (titre > 20) was as follows:

Tested against	18 – 59 years		60 years and above	
	Day 42 ^a	Day 180	Day 42 ^a	Day 180
Seroneutralisation rate*	35.1%	14.4%	54.8%	28.0%

* MN titre \geq 20

^a 21 days after 2nd dose

In a dose-finding study in adults aged 18 – 45 years investigating various dose levels of adjuvanted and non-adjuvanted formulations of the A/Vietnam/1203/2004 strain vaccine the rates of subjects with neutralising antibody titres > 20, seroconversion rates and seroconversion factor for cross-neutralising antibodies as measured by MN in subjects who received the 7.5 μ g non-adjuvanted formulation (N=42) were as follows:

Tested against	Strain A/Indonesia/05/2005	
	Day 42 ^a	Day 180
Seroneutralisation rate*	45.2%	33.3%
Seroconversion rate**	31.0%	21.4%
Seroconversion factor***	3.2	2.5

* MN titre \geq 20

** \geq 4-fold increase in MN titre

*** geometric mean increase

^a 21 days after 2nd dose

Antibody Persistence and Booster Vaccination with Homologous and Heterologous Vaccine Strains

Antibody persistence after vaccination with the 7.5 μ g non-adjuvanted formulation of CELVAPAN (strain A/Vietnam/1203/2004) has been evaluated in two clinical studies in adults aged 18 – 59 years (N=285) and in one clinical study in elderly subjects aged 60 years and above (N=258) up to 6 months after the start of the primary vaccination series. The results indicate an overall decline in antibody levels over time. Data on later time points (months 12 and 24) are not yet available.

Seroprotection*/ Seroneutralisation rate**	18 – 59 years		60 years and above	
	SRH Assay	MN Assay	SRH Assay	MN Assay
Month 6	28.1%	37.9%	26.7%	40.5%

* SRH area $\geq 25 \text{ mm}^2$

** MN titre ≥ 20

To date a booster vaccination with homologous and heterologous vaccine strains has been administered in the phase 3 study 6 months after primary vaccination with two doses of the A/Vietnam/1203/2004 strain vaccine. Two dose levels (3.75 μg and 7.5 μg) of both the A/Vietnam/1203/2004 and A/Indonesia/05/2005 strain vaccines were investigated for the booster vaccination.

Seroprotective titres as determined by SRH assay against the homologous vaccine strain (A/Vietnam/1203/2004) were observed in 65.5% of subjects aged 18 – 59 years and in 59.4% of subjects aged 60 years and older at 21 days after a booster vaccination with the 7.5 μg dose of the A/Vietnam strain vaccine. Twenty-one days after a booster vaccination with the 7.5 μg dose of the A/Indonesia/05/2005 strain vaccine a cross reactive response against the A/Vietnam strain was obtained in 69.0% of subjects aged 18 – 59 years and in 40.6% of subjects aged 60 years and older.

Antibody responses as measured by MN 21 days after the booster vaccination were generally slightly higher with the A/Indonesia/05/2005 than with the A/Vietnam/1203/2004 strain vaccine. Seroneutralisation rates (MN titre > 20) at 21 days after a booster vaccination with the 7.5 μg dose of the A/Vietnam and A/Indonesia vaccines, tested against both the homologous and heterologous strains were as follows:

6-Month Booster	18 – 59 years		60 years and above	
	Vaccination with 7.5 μg strain A/Vietnam			
Tested against	A/Vietnam	A/Indonesia	A/Vietnam	A/Indonesia
Seroneutralisation rate*	86.2%	65.5%	64.5%	54.8%
Vaccination with 7.5 μg strain A/Indonesia				
Seroneutralisation rate*	86.2%	93.1%	65.6%	71.9%

* MN titer $\geq 1:20$

Another study investigated a booster vaccination with 7.5 μg of the heterologous A/Indonesia/05/2005 vaccine strain administered 12 – 15 months after an initial 2-dose priming with various dose levels of adjuvanted and non-adjuvanted formulations of the A/Vietnam/1203/2004 strain vaccine in subjects aged 18 – 45 years. In subjects who received the 7.5 μg non-adjuvanted formulation for primary vaccination (N = 12) seroprotection rates as measured by SRH 21 days after the booster vaccination were 66.7% and 83.3%, and 100% and 91.7% of subjects achieved neutralising antibody titres > 20 when tested against the homologous A/Indonesia and the heterologous A/Vietnam strain, respectively.

No H5N1 clinical data have been generated in subjects below 18 years of age.

Information from non-clinical studies:

Baxter has produced an inactivated A/H1N1 wild-type whole virus candidate vaccine based on the A/California/07/2009 H1N1 influenza virus strain at 100 L GMP fermentation scale.

The immunogenicity of this pandemic A/H1N1 candidate vaccine, produced according to the final large scale GMP process established previously for H5N1 candidate vaccines, has been evaluated in a dose-response study in mice. Groups of ten female CD1 mice were immunized subcutaneously, twice, three weeks apart with one of six doses of pandemic H1N1 candidate vaccine (ranging from 3.75µg to 0.0012µg haemagglutinin). The pandemic H1N1 candidate vaccine was shown to be immunogenic in mice using the haemagglutination inhibition assay (HI) inducing titers up to 160 three weeks after the primary immunization and up to 5120 three weeks after the second dose.. A clear dose response was seen even after a single immunization and the anti-H1N1 antibody response was boosted further by a second immunization given three weeks after the first immunization. The effective dose 50% (that is, the dose inducing an HIA titre of at least 1:40 in half of the immunized mice) was found to be 300 ng for a single immunization and 7 ng for sera collected two weeks after a second immunization.

The protective efficacy of the mock-up vaccine using an H5N1 strain against morbidity and mortality induced by the infection with lethal doses of highly pathogenic avian Influenza H5N1 virus was assessed non-clinically in a ferret challenge model. Two studies have been performed using either the H5N1 A/Vietnam/1203/2004 or the A/Indonesia/05/2005 vaccine.

In one study, sixteen ferrets were divided into two cohorts and were vaccinated on days 0 and 21 with 7.5 µg of the A/Vietnam/1203/2004 vaccine or were sham vaccinated. All ferrets were challenged intranasally on day 35 with a high dose of the highly virulent H5N1 virus strain A/Vietnam/1203/2004 and monitored for 14 days. Ferrets vaccinated with the 7.5 µg dose of the A/Vietnam/1203/2004 vaccine demonstrated a high rate of seroconversion. The A/Vietnam/1203/2004 vaccine afforded protection against homologous challenge as evidenced by full survivorship, reduced weight loss, a less pronounced and shorter increase in temperature, a less marked reduction in lymphocyte counts and in reduction of inflammation and necrosis in brain and olfactory bulb in the vaccinated cohorts as compared to control animals. All controls animals succumbed to the infection.

In a second study, sixty-six ferrets were divided into 6 cohorts of 11 ferrets and were immunized on days 0 and 21 with 3.75 µg or 7.5 µg of the Indonesia vaccine or were sham vaccinated. The ferrets were challenged intranasally on day 35 with a high dose of either the clade 2 H5N1 virus A/Indonesia/05/2005 or the clade 1 H5N1 virus A/Vietnam/1203/2004 and monitored for 14 days. The A/Indonesia/05/2005 vaccine was shown to be efficacious with 100% survival, reduced incidence of fever, reduced weight loss, reduced virus burden, and reduced haematological (leukopenia and lymphopenia) changes in the vaccinated cohorts following homologous challenge. Similarly, the A/Indonesia/05/2005 vaccine was efficacious against a heterologous challenge, showing a vaccine dose dependent survivorship in the vaccinated cohorts as compared to the control cohort. Similar to the homologous challenge, vaccination against a heterologous challenge reduced virus burden, and reduced haematological (leukopenia) changes associated with highly pathogenic avian influenza infection.

Pharmacokinetic properties

Not applicable.

Preclinical safety data

Non-Clinical studies with mock-up vaccine using an H5N1 vaccine strain demonstrated alterations in liver enzymes and calcium levels in repeat dose toxicity studies in rats. Such alterations in liver function have not been seen to date in human clinical studies. Alterations in calcium metabolism have not been examined in human clinical studies.

Animal reproductive toxicology studies do not indicate harmful effects in regard to female fertility, embryo-foetal and pre- and post-natal toxicity.

PHARMACEUTICAL PARTICULARS

List of excipients

Trometamol
Sodium chloride
Water for injections
Polysorbate 80

Incompatibilities

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

Shelf-life

1 year
After first opening, the product should be used immediately. However, chemical and physical in-use stability has been demonstrated for 3 hours at room temperature.

Special precautions for storage

Store in a refrigerator (2°C - 8°C).
Do not freeze.
Store in the original package in order to protect from light.

Nature and contents of the container

One pack of 20 multidose vials (type I glass) of 5 ml suspension (10 x 0.5 ml doses) with a stopper (bromobutyl rubber)

Special precautions for disposal and other handling

The vaccine should be allowed to reach room temperature before use. Shake before use.

Each vaccine dose of 0.5 ml is withdrawn into a syringe for injection.

Any unused vaccine or waste material should be disposed of in accordance with local requirements.

NAME AND ADDRESS

Manufacturer

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Medicine Classification

Prescription Only Medicine.

Date of Preparation

28 January 2010