




<b>VI</b>	<b>02/10/2019 - CT</b> <b>Code article<span> </span>: 765659</b>	 0 7 6 5 6 5 9 0	<b>Sanofi Pasteur</b> <b>Pays<span> </span>: IN</b>
<b>I Référence Pantone U<span> </span>: Black</b>	<b>Format à plat<span> </span>:</b>	<b>Format plié<span> </span>:</b>	
	<b>150 x 352 mm</b>	<b>MLE<span> </span>: 150 x 23 mm</b> <b>VDR<span> </span>: NA</b>	

 094 765659	<b>For the use of a Registered Medical Practitioner or Hospital or a Laboratory</b>	
<b>Adsorbed Diphtheria, tetanus, pertussis (acellular component) and Inactivated Poliomyelitis Vaccine I.P.</b>		
<b>TETRIXIM</b>		
<b>Suspension for Injection in pre-filled syringe</b>		

#### 1. NAME OF THE MEDICINAL PRODUCT

Adsorbed Diphtheria, tetanus, pertussis (acellular component) and Inactivated Poliomyelitis vaccine I.P. TETRIXIM, suspension for injection in prefilled syringe

#### 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

One dose (0.5 mL) contains:

Diphtheria toxoid <sup>(1)</sup> ..... ≥ 30 IU\*
Tetanus toxoid <sup>(1)</sup> ..... ≥ 40 IU\*
*Bordetella pertussis* antigens:
Pertussis toxoid <sup>(1)</sup> .....25 micrograms
Filamentous haemagglutinin <sup>(1)</sup> .....25 micrograms
Poliomyelitis virus (inactivated)
- type 1 (Mahoney strain) ..... 40 DU <sup>(2) (3) (4)</sup>
- type 2 (MEF-1 strain)..... 8 DU <sup>(2) (3) (4)</sup>
- type 3 (Saukett strain) ..... 32 DU <sup>(2) (3) (4)</sup>

<sup>(1)</sup> adsorbed on aluminium hydroxide, hydrated ..... 0.3 mg Al<sup>3+</sup>

<sup>(2)</sup> DU: D antigen unit.

<sup>(3)</sup> or equivalent antigenic quantity determined by a suitable immunochemical method.

<sup>(4)</sup> produced on VERO cells.

\* As lower confidence limit (p=0.95)

TETRIXIM may contain traces of glutaraldehyde, neomycin, streptomycin and polymyxin B (see section 4.3). For the full list of excipients, see section 6.1.

#### 3. PHARMACEUTICAL FORM

Suspension for injection in prefilled syringe. Whitish-turbid suspension.

#### 4. CLINICAL PARTICULARS

##### 4.1 Therapeutic indications

This vaccine is indicated for prevention of diphtheria, tetanus, pertussis and poliomyelitis:

- for primary vaccination in infants from the age of 2 months,

- for booster vaccination, one year after primary vaccination during the second year of life,
- for booster vaccination between 5 and 13 years of age, according to official recommendations.

##### 4.2 Posology and method of administration

TETRIXIM must be administered according to the official recommendations in effect.

Primary vaccination: 3 injections given at an interval of one month, i.e. according to the official schedule, at the age of 2, 3, 4 months.

Booster vaccination: 1 injection one year after primary vaccination, i.e. usually, between 16 and 18 months.
Booster vaccination between 5 and 13 years of age: 1 injection.

For primary vaccination and for the first booster dose, this vaccine may be administered by reconstituting the *Haemophilus influenzae* type b conjugate vaccine (Act-HIB) or administered at the same time as this vaccine, but at two separate injection sites.

##### Method of administration

Administer via the intramuscular route.

Administration should preferably be performed in the antero-lateral side of the thigh (middle third) in infants and in the deltoid area in children.

##### 4.3 Contraindications

- Hypersensitivity:
  - to any of the active substances of TETRIXIM,
  - to any of the excipients listed in section 6.1,
  - to glutaraldehyde, neomycin, streptomycin, or polymyxin B (used during the manufacturing process and which may be present as traces)
  - to a pertussis vaccine (acellular or whole cell).
- Life-threatening reaction after previous administration of the same vaccine or a vaccine containing the same substances.
- Vaccination must be postponed in case of febrile or acute disease.
- Evolving encephalopathy.
- Encephalopathy within 7 days of administration of a previous dose of any vaccine containing pertussis antigens (whole cell or acellular pertussis vaccines).

##### 4.4 Special warnings and precautions for use

The immunogenicity of TETRIXIM may be reduced by immunosuppressive treatment or immunodeficiency. It is then recommended to wait until the end of the treatment or disease before vaccinating. Nevertheless, vaccination of subjects with chronic immunodeficiency such as HIV infection is recommended even if the immune response may be limited.

If Guillain-Barré syndrome or brachial neuritis has occurred in subjects following receipt of prior vaccine containing tetanus toxoid, the decision to give any vaccine containing tetanus toxoid should be based on careful consideration of the potential benefits and possible risks of vaccination. Vaccination is usually justified for infants whose primary

immunization schedules are incomplete (i.e. fewer than three doses administered). Do not inject via the intravascular route: make sure the needle does not penetrate a blood vessel. Do not inject via the intradermal route.

As with all injectable vaccines, TETRIXIM must be administered with caution to subjects with thrombocytopenia or a bleeding disorder since bleeding may occur following an intramuscular administration to these subjects.

Vaccination must be preceded by medical history screening (especially with regard to vaccination history and any occurrence of undesirable events) and a clinical examination.

If any of the following events are known to have occurred in temporal relation to receipt of vaccine, the decision to give further doses of pertussis-containing vaccine should be carefully considered:

- Fever ≥ 40°C within 48 hours not due to another identifiable cause,
- Collapse or shock-like state (hypotonic-hyposresponsive episode) within 48 hours of vaccination,
- Persistent, inconsolable crying lasting ≥ 3 hours, occurring within 48 hours of vaccination,
- Convulsions with or without fever, occurring within 3 days of vaccination.

A history of febrile convulsions not related to a previous vaccine injection is not a contraindication to vaccination. In this respect, it is particularly important to monitor temperature in the 48 hours following vaccination and to give antipyretic treatment regularly for 48 hours.

A history of afebrile convulsions not related to a previous vaccine injection should be assessed by a specialist before deciding to vaccinate.

In the event of oedematous reactions occurring in the lower limbs after injection of a *Haemophilus influenzae* type b-containing vaccine, the two vaccines, diphtheria-tetanus-pertussis-poliomyelitis vaccine and the *Haemophilus influenzae* type b conjugate vaccine should be administered in two separate injection sites and on two different days.

As with all injectable vaccines, appropriate medical treatment must be readily available and close supervision provided should a rare anaphylactic reaction occur following administration of the vaccine.

The potential risk of apnoea and the need for respiratory monitoring for 48-72h should be considered when administering the primary immunisation series to very premature infants (born ≤ 28 weeks of gestation) and particularly for those with a previous history of respiratory immaturity. As the benefit of vaccination is high in this group of infants, vaccination should not be withheld or delayed.

**4.5 Interaction with other medicinal products and other forms of interaction**

This vaccine can be administered simultaneously with the M-M-RVAXPRO vaccine or with the HBVAXPRO vaccine, but in two separate sites

This vaccine can be associated or combined with the *Haemophilus influenzae* type b conjugate vaccine (Act-HIB).

Immunogenicity studies have shown that all infants (100%) vaccinated with three doses of vaccine from 2 months of age developed a seroprotective antibody titre (> 0.01 IU/mL) to both diphtheria and tetanus antigens. As for pertussis, one to two months after the third dose of the primary vaccination, more than 87% of infants achieved a four-fold increase in PT and FHA antibody titres.

Following primary vaccination, at least 99.5% of children had seroprotective antibody titres to poliomyelitis virus types 1, 2 and 3 (≥ 5 as expressed by reciprocal of dilution in seroneutralisation) and were considered as protected against poliomyelitis. After the first booster dose (16-18 months), all the toddlers developed protective antibodies against diphtheria (> 0.1 IU/mL), tetanus (> 0.1 IU/mL) and 87.5% against poliomyelitis viruses (≥ 5 as expressed by reciprocal of dilution in seroneutralisation). The seroconversion rate in pertussis antibodies (titres higher than four-fold the pre-vaccinal titres) is 92.6% for PT and 89.7% for FHA.

After booster vaccination between 5 to 13 years of age, all children developed protective antibody titres against tetanus (> 0.1 IU/mL) and poliomyelitis viruses. Protective antibody titres against diphtheria (> 0.1 IU/mL) were achieved in at least 99.6% of them. Seroconversion rates in pertussis antibodies (titres higher than four-fold the pre-vaccinal titres) are from 89.1% to 98% for PT (EIA) and from 78.7% to 91% for FHA (EIA).

**5.2 Pharmacokinetic properties**

Not applicable.

**5.3 Preclinical safety data**

Non-clinical data revealed no special hazard for humans based on conventional acute toxicity, repeat dose toxicity and local tolerance studies.

**6. PHARMACEUTICAL PARTICULARS**

**6.1 List of excipients**

Concerning the adsorbent, see Section 2.

Aluminium hydroxide, hydrated ..... 0.3 mg Al
Phenoxyethanol ..... 2.5µL
Ethanol anhydrous ..... 2.5µL
Formaldehyde solution ..... 10 µg
Formaldehyde 199 Hanks 10x without phenol red ..... 0.05 mL
Acetic acid glacial and Sodium hydroxide (present in trace amount) Water for injection ..... Up to 0.5 mL

Hanks medium is a complex mixture of amino acids (including phenylalanine), mineral salts, vitamins and other components (such as glucose) diluted in water for injections.

**6.2 Incompatibilities**

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products, except those listed in section 6.6.

**6.3 Shelf life**

3 years.
Do not use after the expiry date stated on the label, the box. The expiry date refers to the last date of that month.

**6.4 Special precautions for storage**

Store in a refrigerator (2°C - 8°C). Do not freeze.

**6.5 Nature and contents of container**

0.5 mL of suspension in prefilled syringe (type I glass) equipped with a plunger-stopper (bromobutyl or chlorobutyl or bromochlorobutyl) and a tip-cap, with two separate needles. Box of 1 or 10.
0.5 mL of suspension in prefilled syringe (type I glass) equipped with a plunger-stopper (bromobutyl or bromochlorobutyl) with attached needle. Not all pack sizes may be marketed.

**6.6 Instructions for use, handling and disposal**

For syringes without attached needles, the separate needle must be fitted firmly to the syringe, rotating it by a one-quarter turn.
TETRIXIM can be used to reconstitute the *Haemophilus influenzae* type b conjugate suspension is obtained.
Any unused product or waste material should be disposed of in accordance with local requirements.

**7. Manufactured by**

Sanofi Pasteur
Parc Industriel d’Incarville, 27100 Val de Reuil, France

**8. Imported and Marketed by**

Sanofi Pasteur India Private Limited
El-223, T.T.C. Industrial Area, Mahape, Navi Mumbai, Dist. Thane 400710
Registered Medical Practitioners can refer to the company website www.sanofi.in for the latest prescribing information
For further information you may contact :-
REGISTERED OFFICE:
Sanofi Pasteur India Private Limited
Sanofi House, CTS No. 117-B, L&T Business Park, Saki Vihar Road, Powai, Mumbai 400072.

**Version 2, July 2019**

**4.6 Pregnancy and lactation**

Not applicable.
TETRIXIM is intended for paediatric use only.

**4.7 Effects on ability to drive and use machines**

Not applicable.
TETRIXIM is intended for paediatric use only.

**4.8 Undesirable effects**

**a) Summary of the safety profile**

The safety profile is described below according to the clinical data generated in France, South Korea, Chile and Thailand.

In clinical studies in children who received TETRIXIM as a primary series, stand alone or combined with the Act- HIB vaccine, the most frequently reported reactions are local injection-site reactions, abnormal crying, loss of appetite and irritability. These signs and symptoms usually occur within 48 hours following the vaccination and may continue for 48-72 hours. They resolve spontaneously without requiring specific treatment.
The frequency of injection-site reactions tends to increase at booster vaccination compared with the frequency observed for primary series.
The safety profile of TETRIXIM does not differ significantly according to age groups. However certain reactions (myalgia, malaise, headache) are specific to children aged 2 years or more.

**b) Tabulated list of adverse reactions.**

The adverse events are ranked under headings of frequency using the following convention: Very common: ≥1/10
Common: ≥1/100 and <1/10
Uncommon: ≥1/1000 and <1/100
Rare: ≥1/10000 and <1/1000
Very rare: <1/10 000
Not known: cannot be estimated from the available data.

Based on spontaneous reporting, certain undesirable events were very rarely reported following the use of TETRIXIM. Because 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 vaccine exposure. This is why these undesirable events are ranked under the « Not known » frequency.

■ Blood and lymphatic system disorders
Reactions with a Not Known frequency

- Lymphadenopathy.

■ Immune system disorders
Reactions with a Not Known frequency

- Immediate hypersensitivity reactions such as face oedema, angioedema, Quincke's oedema, anaphylactic reactions.

- Metabolism and nutrition disorders

Very common reactions

- Loss of appetite.
- Psychiatric disorders

Very common reactions

- Nervousness, irritability.
- Abnormal crying.

Common reactions

- Insomnia, sleep disturbances.

Uncommon reactions

- Prolonged Inconsolable crying.

- Nervous system disorders

Very common reactions

- Somnolence.
- Headache.

Reactions with a Not Known frequency

- Convulsions with or without fever.
- Syncope.

- Gastro-intestinal disorders

Very common reactions

- Vomiting.

Common reactions

- Diarrhoea.

- Skin and subcutaneous tissue disorders

Reactions with a Not Known frequency

- Rash, erythema, urticaria.

- Musculoskeletal and connective tissue disorders

Very common reactions

- Myalgia.

- General disorders and administration site conditions

Very common reactions

- Injection-site erythema.
- Injection-site pain.
- Injection-site oedema.
- Fever ≥38°C.
- Malaise.

Common reactions

- Injection-site induration.

Uncommon reactions

- Injection-site redness and oedema ≥5 cm.
- Fever ≥39°C.

Rare reactions

- Fever >40°C.

Reactions with a Not Known frequency

- Large injection-site reactions (> 50 mm), including extensive limb swelling from the injection site beyond one or both joints. These reactions start within