

Rotavirus Vaccine (Live, Oral) BP

VERO CELL DERIVED

ROTAVAC® 50*

1. NAME AND DESCRIPTION OF THE ACTIVE IMMUNIZING AGENT
Rotavirus Vaccine (Live, Oral) is a monovalent vaccine containing suspension of live attenuated rotavirus 116E present in Vero cells. Rotavirus are double-stranded RNA virus of the genus Picornavirus. The classification is based on the immunological cross-reactivity system based on two proteins on the surface of the virus into G and P types. Based on this nomenclature, Rotavirus 116E is classified as G9P [11]. A single human dose of ROTAVAC 5D* is 0.5 mL containing not less than [NLT] 10⁶ FFU [Focus Forming Unit] of live rotavirus 116E.

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Composition :	
Each dose 0.5 mL (5 Drops) contains:	
Vero cell derived Rotavirus 116E bulk, Live attenuated	NLT 10 ⁶ FFU
Neomycin Sulphate BP	15 µg
Kanamycin Acid Sulphate BP	15 µg
Sucrose BP	0.25 gms
Trehalose BP	2.5 mg
Lactalbumin Hydrolysate (LAH)	2.5 mg
Human Albumin BP	0.35 %
Potassium Di-Hydrogen Orthophosphate BP	1.65 mg
Di-Potassium Hydrogen Orthophosphate BP	10 mg
Tri-Sodium Citrate Dihydrate BP	7.75 mg
Water for Injections BP	9.8-

pH range: 6.50 to 7.50

3. PHARMACEUTICAL FORM

ROTAVAC 5D* is pinkish yellow colored sterile liquid for oral use, may contain white suspended particles in the final container of the product. Vigorous shaking/mixing, does not dissolve the particles.

4. CLINICAL PARTICULARS**4.1 Therapeutic indications**

For prophylactic use only.
ROTAVAC 5D* is indicated for active immunization of infants from the age of 6 weeks for the prevention of gastroenteritis due to rotavirus infection when administered as a 3-dose regimen.

4.2 Pathology and method of administration

ROTAVAC 5D* should be administered as a 3-dose regimen, 4 weeks apart, beginning at 6 weeks of age. ROTAVAC 5D* may be co-administered with other routine childhood immunizations (i.e., Diphtheria, Tetanus and Pertussis [DTwP], *Haemophilus influenzae* Type b, Hepatitis B vaccine and Oral/ injectable Polio Vaccine [OPV & IPV]). Based on recommendations from the World Health Organization (Rotavirus vaccines WHO Position Paper, January 2013 in Weekly Epidemiological Report No.5, 2013, 88-94). In the routine childhood immunizations are initiated later than 6 weeks of age and/or a longer dose interval than 4 weeks, ROTAVAC 5D* can still be co-administered with DTwP.

It is recommended that infants who receive ROTAVAC 5D* as the first dose should complete the 3 doses regimen with ROTAVAC 5D*. There is no data on safety, immunogenicity or efficacy when ROTAVAC 5D* is administered interchangeably with other rotavirus vaccines.

Pediatric Population:

The minimum limit of the 3 dose primary schedule of Rotavirus vaccine should be administered to children by the age of 8 months (34 weeks) (Code for Disease Control and Prevention, <http://www.cdc.gov/vaccines/vpd-vac/rotavirus/vac-faq.htm>).

Method of administration:

ROTAVAC 5D* is for oral use only and should not be injected. Care should be taken not to contaminate the multi-dose dropper of the vaccine with saliva of the babies. Once opened, multi-dose vials should be kept at +2°C to +8°C.

In case, an incomplete dose is administered (the baby spits up or regurgitates most of the vaccine), a single replacement dose may be administered at the same vaccination visit*. The baby may continue to receive the remaining doses as per schedule. However in clinical trials, the reported incidence of spitting or vomiting is less than 0.5%.

*Physician's discretion is advised

Multi-dose vials of ROTAVAC 5D* from which one or more doses of vaccine have been removed during an immunization session may be used in subsequent immunization sessions for up to a maximum of 28 days after opening, provided that all of the following conditions are met (as described in the WHO Policy Statement: Multi-Dose Vial Policy (MDVP) Revision 2014 WHO/IIVB/14.07).

Once opened, multi-dose vials should be kept between +2°C and +8°C.

• The vaccine is currently pre qualified by WHO.

• The vaccine is approved for use for up to 28 days after opening of the vial, as determined by WHO (http://www.who.int/immunization_standards/vaccine_quality/PO_vaccine_list_en/in/).

• The expiry date of the vaccine has not passed.

• The vaccine vial has been, and will continue to be, stored at the recommended temperature; furthermore, the vaccine vial monitor is visible on the vaccine label and is not part of its discord point, and the vaccine has not been damaged by freezing.

4.3 Contraindications

Hypersensitivity to any component of the vaccine. Babies who develop symptoms suggestive of hypersensitivity after receiving a dose of **ROTAVAC 5D*** should not receive further doses of **ROTAVAC 5D***.

Babies with Severe Combined Immunodeficiency Disease (SCID). Cases of gastroenteritis associated with five rotavirus vaccines have been reported in infants with SCID.

• History of immunosuppression (IS) intestinal malformations predisposing to intussusception.

4.4 Special warning/ Precautions

No safety or efficacy data are available from clinical trials regarding the administration of ROTAVAC 5D* to immunocompetent infants and immunocompetent persons, with immune deficiency. Administration of ROTAVAC 5D* may be considered with caution if, in the opinion of the physician, withholding the vaccine entails a greater risk. Similarly, acute infection or febrile illness may be reason for delaying the administration of ROTAVAC 5D*, until the opinion of the physician, withholding the vaccine entails a greater risk. Low-grade fever and mild upper respiratory tract infection are not contraindications to ROTAVAC 5D*.

Available published data shows a small increased incidence of intussusception (IS) following the first dose of Rotavirus vaccines (WHO position paper, January 2013, <http://www.who.int/wer/2013/10/2013wer8805.pdf?ua=1>). However, the safety data from the clinical trial of ROTAVAC 5D* does not show a risk or incidence of IS. Yet, it is advised to health care providers to look into any symptoms suggestive of IS e.g., continuous vomiting, blood in stools and abdominal pain or distension of the abdomen. Patients/caregivers should be advised to promptly inform such symptoms to health care providers.

Similar to other vaccines, vaccination with ROTAVAC 5D* may not result in complete protection against rotavirus induced gastroenteritis due to other pathogens.

There is no data to support use of ROTAVAC 5D* for post exposure-prophylaxis.

ROTAVAC 5D* SHOULD NOT BE INJECTED AT ANY CIRCUMSTANCES

4.5 Interaction with other medicines/products/active immunizing agents and otherforms of interaction

In this clinical trial, ROTAVAC 5D* (IPV and pertussis) and ROTAVAC 5D* (Hib) vaccines were administered. Three doses of ROTAVAC 5D* can be safely administered with three doses of pentavalent vaccine and three doses of OPV as well as IPV without diminishing the antibody response to each component of these vaccines. It is well tolerated when administered concomitantly with routine childhood vaccines.

4.6 Pregnancy and lactation

ROTAVAC 5D* is a pediatric vaccine and should not be administered to adults including pregnant women. Breast feeding of infants was permitted in clinical studies. There was no evidence to suggest that breast feeding reduced the protection against rotavirus gastroenteritis conferred by ROTAVAC 5D*. There are no restrictions on the infant's liquid consumption including breast milk, either before or after vaccination with ROTAVAC 5D*.

4.7 Effect on ability to drive and use machines: Not applicable.

4.8 Adverse reactions

Clinical Trial Experience
The most commonly observed Adverse Events during the clinical trial were Fever, Diarrhea, Cough and like running nose and irritability. No vaccine related SAEs were reported. There was no vaccine related case of intussusception observed/reported. Fever could be due the concomitant injectable vaccines.

List of adverse reactions

Adverse reactions reported are listed according to the following frequency:

Very common :>(2/10)
Common :>(1/100,-<1/10)
Uncommon :>(1/1000,-<1/100)
Rare :>(1/10000,-<1/1000)

Clinical Trial Data
Very common : Fever, Cough, Crying
Common : Diarrhea

4.9 Overdose

No case of overdose has been reported.

5.0 PHARMACOLOGICAL PROPERTIES

Pharmaco-therapeutic group: rotavirus diarrhea vaccines.

5.1 Pharmacodynamic properties

Protective efficacy

In total 11 clinical trials, approximately ~15000 subjects were vaccinated with different formulations of ROTAVAC 5D* vaccines consisting ORV116E as the active ingredient with a virus titer of NLT 10⁶ FFU. These ORV116E strain containing ROTAVAC 5D* formulations (ROTAVAC®, ROTAVAC 5C & ROTAVAC 5D*) were tested for their Safety, Immunogenicity and Non-inferiority. The adverse reaction profile and immunogenicity profile observed in subjects administered with these three formulations were similar. ROTAVAC® & ROTAVAC 5C formulations were similar to ROTAVAC 5D* while being co-administered with IPV vaccines and manufacturing consistency of ROTAVAC® and ROTAVAC 5C formulations can be extrapolated to ROTAVAC 5D* formulation.

ROTAVAC® (ORV116E)
A Multi-center clinical study was conducted in India to evaluate the efficacy of ROTAVAC® to prevent severe rotavirus gastroenteritis. Data for vaccine efficacy has been presented for the first year and second year. The results of these two analyses were similar, suggesting that the vaccine efficacy (VE) for the first year of life was ~95% for both the first and second year of life.

ROTAVAC 5D* (IPV)
An additional study was conducted in India to evaluate the efficacy of ROTAVAC 5D* to prevent severe rotavirus gastroenteritis. The results of these two analyses were similar, suggesting that the vaccine efficacy (VE) for the first year of life was ~95% for both the first and second year of life.

ROTAVAC 5D* (Hib)
An additional study was conducted in India to evaluate the efficacy of ROTAVAC 5D* to prevent severe rotavirus gastroenteritis. The results of these two analyses were similar, suggesting that the vaccine efficacy (VE) for the first year of life was ~95% for both the first and second year of life.

ROTAVAC 5D* (OPV)
An additional study was conducted in India to evaluate the efficacy of ROTAVAC 5D* to prevent severe rotavirus gastroenteritis. The results of these two analyses were similar, suggesting that the vaccine efficacy (VE) for the first year of life was ~95% for both the first and second year of life.

ROTAVAC 5D* (DTwP)
An additional study was conducted in India to evaluate the efficacy of ROTAVAC 5D* to prevent severe rotavirus gastroenteritis. The results of these two analyses were similar, suggesting that the vaccine efficacy (VE) for the first year of life was ~95% for both the first and second year of life.

ROTAVAC 5D* (Hib+DTwP)
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ROTAVAC 5D* (OPV+DTwP)
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ROTAVAC 5D* (Hib+IPV+DTwP+OPV)
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ROTAVAC 5D* (Hib+IPV+DTwP+OPV+DTwP)
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0,5% (IC del 95% -1,3, 2,3) para el toxoide diférlico, 0,9% (IC del 95% -0,3, 2,4) para el toxoide del tétano, 0,9% (IC del 95% -1,3, 1,1) para los anticuerpos anti-PRP. La relación de la EGC entre el placebo y los grupos ROTAVAC® para la toxina pertussis fue de 1,13 (IC del 95% 0,8, 1,1).

Los GMT de vacunación basales y posteriores a la 3^a dosis de anticuerpos IgA según el lote de ROTAVAC®, ElGMT basal fue similar los tres grupos (2,7-2,8). Los GMT posteriores a la vacunación tuvieron una media de 10,8 desde 8,5.

ROTAVAC® 5C (ORV 116)
Los resultados estadísticamente significativos en los titulos de IgA previos y posteriores a la vacunación entre el ROTAVAC 5C y el ROTAVAC® (valor medio de referencia de 22,2 y 24,2 U/ml, respectivamente (p=0,84 en comparación con todos los brazos), y después del título de vacunación 59,1 y 76,0 U/ml, respectivamente (p=0,12)).

La seroconversión ocurrió el día 84 en el 37,6% (IC del 95% 31,1%, 44,2%) del brazo ROTAVAC 5C, 41,3% (IC del 95% 34,7, 47,8%) del ROTAVAC®. No hubo diferencias significativas en las tasas de seroconversión entre ROTAVAC® y ROTAVAC 5C (p=0,48).

Estudio sin interferencia EPI y consistencia lote a lote
En la población de inmunogenicidad, los tres lotes de ROTAVAC 5C fueron no inferiores al ROTAVAC®, siendo el límite inferior del intervalo de confianza del 95% para una relación GMT (ROTAVAC 5C / ROTAVAC®) superior a 1,0. La 1^a relación GMT 1,069 (IC del 95% 0,827 a 1,382; 0,0001 < p < 0,0001) y Lot 3 relación GMT 1,129 (IC del 95% 0,867 a 1,471; p<0,0001). Cuando se combinaron todos los lotes, la relación de GMT 1,097 (IC del 95% 0,882 a 1,357; p<0,0001).

No hubo diferencias estadísticamente significativas en los titulos de IgA previos y posteriores a la vacunación entre los brazos ROTAVAC 5C y ROTAVAC® (valor medio de referencia 24,0, 21,5 y 28,5 para ROTAVAC 5C Lote 1, 2 y 3, y ROTAVAC®, respectivamente; p=0,7275 ANOVA comparando los cuatro brazos).

No hubo diferencia en los titulos GMT entre ROTAVAC 5C (todos los lotes) y ROTAVAC® -20°C para Bordetella pertussis, difteria, *Haemophilus influenzae* tipo B, Hepatitis B o Tétano (el límite inferior para todos era - 0,50). No hubo diferencia entre los lotes para ninguna de las vacunas. En consecuencia ROTAVAC 5C puede ser correctamente administrado conjuntamente con otras vacunas infantiles.

ROTAVAC® 5D (ORV 116)
No hubo diferencias estadísticamente significativas en los titulos de IgA previos y posteriores a la vacunación entre el ROTAVAC 5D y el ROTAVAC® (valor medio de referencia de 10,31 y 11,57 U/ml, respectivamente (p=0,89) en comparación con todos los brazos); y después del título de vacunación 18,70 y 19,55 U/ml, respectivamente (p=0,77)).

La seroconversión cuadruplicó ocurrió el día 84 en el 22,18% (IC del 95% 17,01%, 27,35%) del brazo ROTAVAC 5D y 21,25% (IC del 95% 12,29%, 30,21%) del ROTAVAC®. No hubo diferencias significativas en las tasas de seroconversión entre ROTAVAC® y ROTAVAC 5D (p=0,86).

Datos de vigilancia post comercialización
Vigilancia post comercialización se lleva a cabo para el ROTAVAC® vacuna basada en la Rotavírus 116E cepa y no SAE fueron observados hasta el momento.

5.2 Propiedades farmacocinéticas
La evaluación de las propiedades farmacocinéticas no se requiere para las vacunas.

5.3 Datos de seguridad preclínica
Se realizó un estudio de toxicidad de dosis repetidas sobre la vacuna candidata de rotavirus oral 116E cepa viva en ratas y conejos. Estos estudios se iniciaron con formulaciones de 0,5 mL y más adelante en la continuación del desarrollo de la formulación con buffer donde el volumen de la dosis es de 1,5 mL y 2,0 mL (ROTAVAC 5C) fueron objeto de los estudios toxicológicos preclínicos. En ambos estudios se observó una respuesta similar a la dosis de 1,5 mL en la concentración utilizada. ROTAVAC 5D™ tiene excepciones similares a la de ROTAVAC 5C, a pesar de tener una menor concentración. El volumen de la dosis, la concentración del sistema buffer y los recipientes se probó en modelos animales para determinar su toxicidad y se encontró que son seguros. Los datos de seguridad preclínicos establecen la seguridad de la vacuna para la formulación ROTAVAC 5C.

6. DATOS FARMACÉUTICOS
6.1 Lista de expedientes
Sulfato de Neomicina, Sulfato de ácido de kanamicina, Sacarosa, Trehalosa, Hidrosírol de Lactalbúmina, Álbumina Humana, Ofrotostato de potasio hidrógeno, Ofrotostato de hidrógeno di-potásico, Citrato trisódico/di-hidratado, Agua para inyección.

6.2 Incompatibilidades: Es este producto no debe mezclarse en el mismo gotero/jeringa con ningún otro medicamento/ágente inmunoestimulante activo.

6.3 Vida útil: La fecha de caducidad de la vacuna está indicada en la etiqueta y el embalaje.

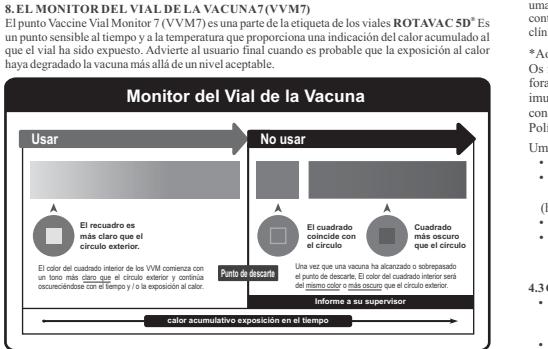
6.4 Precauciones especiales para el clínico-estomatología:
La vacuna debe almacenarse a +2°C a +8°C. No congelar. Mantener fuera del alcance de los niños. No use la vacuna después de la fecha de vencimiento que se muestra en la etiqueta.

7. PRESENTACIÓN:
ROTAVAC 5D® se presenta en viales de vidrio USP tipo I.

Dosis única : 0,5 ml.
Dosis múltiples : 2,5 ml.

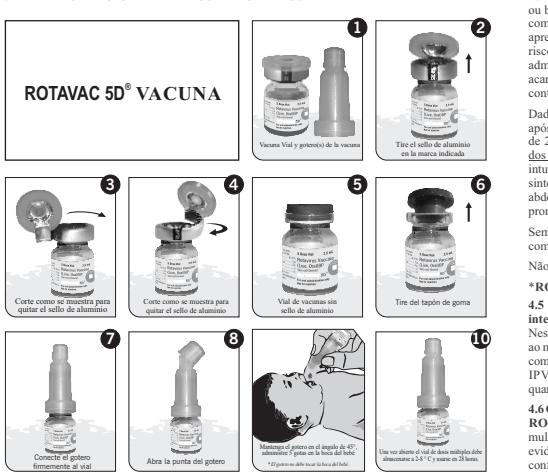
8. EL MONITOR DEL VIAL DE LA VACUNA 7(VVM7)
El punto Vacíne Vial Monitor 7(VVM7) es una parte de la etiqueta de los viales de ROTAVAC 5D®. Es un punto sensible al tiempo y la temperatura que proporciona una indicación del calor acumulado al que el vial ha sido expuesto. Advierte al usuario final cuando es probable que la exposición al calor haya degradado la vacuna más allá de un nivel aceptable.

Monitor del Vial de la Vacuna



La interpretación del VVM7 es simple. Entreguese en el cuadro central. Su color cambiará progresivamente. Mientras el color de este cuadro sea más claro que el del anillo, la vacuna puede ser utilizada. En cuanto el color del cuadro central sea del mismo color que el anillo o más oscuro que el anillo, se debe desechar el vial.

9. ADMINISTRACIÓN DE LA VACUNA ROTAVAC 5D®



Última fecha de revisión: Julio 2023
Fabricado por:

BHARAT BIOTECH
Lead Innovation

Bharat Biotech International Ltd., Sy. No. 230, 231 & 235, Genome Valley, Turkapally, Shamirpet Mandal, Medchal - Malkajgiri District - 500 078, Telangana, India.

Para quejas y sugerencias sobre el producto, y cualquier evento adverso, Favor envíe un correo electrónico a feedback@bharatbiotech.com.

← →
Para ser vendido no varejo apenas sob prescripción de um médico registrado

Vacina contra Rotavírus (viva, oral) BP

DERIVADA DE CÉLULAS VERO

ROTAVAC 5D®

1. NOME E DESCRIÇÃO DO AGENTE IMUNIZADOR ACTIVO

A vacina é composta por rotavirus vírus, que contém uma suspensão de rotavirus atenuados vírus 116E preparados em células Vero. Os rotavirus vírus RNA de cadeia dupla do género Reoviridae. Os rotavirus são classificados em um sistema de classificação dupla baseado em duas proteinas localizadas na superfície do virus nos tipos G e P. Com base nessa nomenclatura, o Rotavirus 116E é classificado como G9P[11]. Una dose única de ROTAVAC 5D® para humanos é de 0,5 ml contendo não menos do que [NLT] 10¹⁰ FFU [Unidades formadoras de foco] de rotavirus 116E.

2. COMPOSIÇÃO QUALITATIVA E QUANTITATIVA

Composição:

Cada dose de 0,5 ml (5 gotas) contém:
Rotavirus 116E derivado de células Vero, vírus, atenuado 1NL 10¹⁰ FFU
Sulfato de Neomicina BP 15 µg
Sulfato ácido de canamicina BP 15 µg
Sacarose BP 0,25 gramas
Trehalose BP 2,5 mg
Hidrosírol de lactalbúmina (LAH) 2,5 mg
Álbumina Humana BP 0,35 %
Ofrotostato Di-Hidrogenio de Potássio BP 1,65 mg
Ofrotostato de Hidrogénio Di-Potásico BP 10 mg
Citrato Trisódico-Di-hidratado BP 7,75 mg
Água para Injeção BP 9,5.

Faixa de vacina e Conta-gotas (m) Retire o selo de aluminio da marca indicada

Raque como mostrado, para remover o selo de alumínio

Raque como mostrado, para remover o selo de alumínio

Frasco da vacina sem vedação de alumínio

Retire o selo de borda

Ilustrações detalhadas do processo de abertura

Abra a ponta do conta-gotas

Mantenha o conta-gotas num ângulo de 45°

Use uma vez, e limpe bem de dentro e de fora

Faixa de vacina e conta-gotas

Ilustrações detalhadas do processo de abertura

Abra a ponta do conta-gotas

Mantenha o conta-gotas num ângulo de 45°

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Faixa de vacina e conta-gotas

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Ilustrações detalhadas do processo de abertura

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Faixa de vacina e conta-gotas

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