

**RHOGAM ULTRA-FILTERED PLUS- human rho(d) immune globulin injection, solution**  
**MICRHOGAM ULTRA-FILTERED PLUS- human rho(d) immune globulin injection, solution**  
**Kedrion Biopharma Inc**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

These highlights do not include all the information needed to use RhoGAM Ultra-Filtered PLUS (RhoGAM) and MICRhoGAM Ultra-Filtered PLUS (MICRhoGAM) safely and effectively. See full prescribing information for RhoGAM and MICRhoGAM.

**RhoGAM® Ultra-Filtered PLUS [Rho(D) Immune Globulin (Human)] (300 µg) (1500 IU), prefilled syringe, for intramuscular use**

**MICRhoGAM® Ultra-Filtered PLUS [Rh<sub>0</sub>(D) Immune Globulin (Human)] (50 µg) (250 IU), prefilled syringe, for intramuscular use**

**Initial U.S. Approval: 1968**

----- **RECENT MAJOR CHANGES** -----

Description (11)

12/2022

----- **INDICATIONS AND USAGE** -----

RhoGAM and MICRhoGAM are immune globulins indicated for use in preventing Rh immunization for:

- Pregnancy and other obstetrical conditions in Rh-negative women unless the father or baby are conclusively Rh-negative, e.g. delivery of an Rh-positive baby irrespective of the ABO groups of the mother and baby, any antepartum fetal-maternal hemorrhage (suspected or proven), actual or threatened pregnancy loss at any stage of gestation and ectopic pregnancy. (1.1)
- Prevention of Rh immunization in any Rh-negative person after incompatible transfusion of Rh-positive blood or blood products. (1.2)
- Limitation of use

*Pregnancy and other obstetrical conditions:* In the case of postpartum use, RhoGAM and MICRhoGAM are intended for maternal administration. Do not inject the newborn infant. (1.3)

----- **DOSAGE AND ADMINISTRATION** -----

**For intramuscular use only. (2)**

**Pregnancy and other obstetrical conditions (2.1)**

<b>Dose</b>	<b>Indication</b>	<b>Notes*</b>
RhoGAM (300 µg) (1500 IU)	Postpartum (if the newborn is Rh-positive) Administer within 72 hours of delivery	Additional doses of RhoGAM are indicated when the patient has been exposed to > 15 mL of Rh-positive red blood cells.
	Antepartum: <ul style="list-style-type: none"> <li>• Prophylaxis at 26 to 28 weeks gestation Administer within 72 hours of suspected or proven exposure to Rh-positive red blood cells</li> <li>• Obstetric complications/ invasive procedures beyond 13 weeks gestation</li> </ul>	If antepartum prophylaxis is indicated, it is essential that the mother receive a postpartum dose if the infant is Rh-positive.
MICRhoGAM (50 µg) (250 IU)	Actual or threatened termination of pregnancy (spontaneous or induced) up to and including 12 weeks gestation Administer within 72 hours	RhoGAM may be administered if MICRhoGAM is not available.

\* After delivery, obstetric complications, and/or invasive procedures, the volume of the fetal-maternal hemorrhage must be determined to calculate the exact dose of RhoGAM required.

**Transfusion of Rh-incompatible blood or blood products (2.1)**

**Administer within 72 hours of suspected or proven exposure to Rh-positive red blood cells. (2.1)**

<b>Dose</b>	<b>Indication</b>	<b>Notes</b>
MICRhoGAM (50 µg) (250 IU)	< 2.5 mL Rh-positive red blood cells	RhoGAM may be administered if MICRhoGAM is not available.
RhoGAM (300 µg) (1500 IU)	≥ 2.5 mL Rh-positive red blood cells	Administer 20 µg of RhoGAM per mL of Rh-positive red blood cell exposure, rounding up to the next whole syringe.

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

Rh<sub>o</sub>(D) Immune Globulin (Human)

- RhoGAM<sup>®</sup> Ultra-Filtered PLUS - 300 µg (1500 IU) – Prefilled Syringes (3)
- MICRhoGAM<sup>®</sup> Ultra-Filtered PLUS - 50 µg (250 IU) – Prefilled Syringes (3)

----- **CONTRAINDICATIONS** -----

- Rh-positive individuals. (4)
- Patients with a known history of anaphylactic or severe systemic reactions to the administration of human immune globulin products. (4)

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

- Severe hypersensitivity reactions may occur with the use of RhoGAM and MICRhoGAM. (5.1)
- RhoGAM and MICRhoGAM should be administered in a setting where appropriate equipment, medications such as epinephrine, and personnel trained in the management of hypersensitivity, anaphylaxis, and shock are available. (5.1)
- Products made from human blood may carry a risk of transmitting infectious agents e.g., viruses, the variant Creutzfeldt-Jakob disease (vCJD) and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent. (5.2)
- After administration of Rho(D) immune globulin, a transitory increase of various passively transferred antibodies in the patient's blood may yield positive serological testing results. (5.3)

**Incompatible blood transfusion**

- Patients treated for Rh-incompatible transfusion should be monitored by clinical and laboratory means for signs and symptoms of a hemolytic reaction. (5.4)

----- **ADVERSE REACTIONS** -----

- The most frequently reported adverse reactions in patients receiving Rho(D) Immune Globulin (Human) products are injection site reactions, such as swelling, induration, redness and mild pain or warmth. Possible systemic reactions are skin rash, body aches or a slight elevation in temperature. (6)
- Severe systemic reactions include allergic reactions and hemolytic reactions. (6)

**To report SUSPECTED ADVERSE REACTIONS, contact Kedrion Biopharma Inc. at 1-855-3KDRION (1-855-353-7466) or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch). Outside of the United States, the company distributing these products should be contacted.**

----- **DRUG INTERACTIONS** -----

- May impair the efficacy of live vaccines such as measles, mumps and varicella. Administration of live vaccines should generally be delayed until 12 weeks after the final dose of immune globulin. If administered within 14 days after administration of a live vaccine, the efficacy of the vaccination may be impaired. (7)
- The postpartum vaccination of rubella-susceptible women with rubella or MMR vaccine should not be delayed because of the receipt of Rho(D) Immune Globulin (Human). (7)

**See 17 for PATIENT COUNSELING INFORMATION.**

**Revised: 12/2022**

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## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

#### **1.1 Pregnancy and other obstetrical conditions**

RhoGAM and MICRhoGAM are indicated for administration to Rh-negative women not previously sensitized to the Rho(D) factor, unless the father or baby are conclusively Rh-negative, in case of:

- Delivery of an Rh-positive baby irrespective of the ABO groups of the mother and baby
- Antepartum prophylaxis at 26 to 28 weeks gestation
- Antepartum fetal-maternal hemorrhage (suspected or proven) as a result of placenta previa, amniocentesis, chorionic villus sampling, percutaneous umbilical blood sampling, other obstetrical manipulative procedure (e.g., version) or abdominal trauma
- Actual or threatened pregnancy loss at any stage of gestation
- Ectopic pregnancy

## 1.2 Transfusion of Rh-incompatible blood or blood products

RhoGAM and MICRhoGAM are indicated for prevention of Rh immunization in any Rh-negative person after incompatible transfusion of Rh-positive blood or blood products (e.g., red blood cells, platelet concentrates, granulocyte concentrates).

## 1.3 Limitation of use

### Pregnancy and other obstetrical conditions

In the case of postpartum use, RhoGAM and MICRhoGAM are intended for maternal administration. Do not inject the newborn infant.

## 2 DOSAGE AND ADMINISTRATION

### For intramuscular use only.

### 2.1 Dose

#### Pregnancy and other obstetrical conditions

Dose	Indication	Notes*
	Postpartum (if the newborn is Rh-positive) Administer within 72 hours of delivery.	Additional doses of RhoGAM are indicated when the patient has been exposed to > 15 mL of Rh-positive red blood cells. This may be determined by use of qualitative or quantitative tests for fetal-maternal hemorrhage.
	Antepartum: <ul style="list-style-type: none"> <li>• Prophylaxis at 26 to 28 weeks gestation</li> </ul> Administer within 72 hours of suspected or proven exposure to	

RhoGAM (300 µg) (1500 IU)	Rh-positive red blood cells resulting from: <ul style="list-style-type: none"> <li>• Amniocentesis, chorionic villus sampling (CVS) and percutaneous umbilical blood sampling (PUBS)</li> <li>• Abdominal trauma or obstetrical manipulation</li> <li>• Ectopic pregnancy</li> <li>• Threatened pregnancy loss after 12 weeks gestation with continuation of pregnancy</li> <li>• Pregnancy termination (spontaneous or induced) beyond 12 weeks gestation</li> </ul>	If antepartum prophylaxis is indicated, it is essential that the mother receive a postpartum dose if the infant is Rh-positive. If RhoGAM is administered early in pregnancy (before 26 to 28 weeks), there is an obligation to maintain a level of passively acquired anti-D by administration of RhoGAM at 12-week intervals.
MICRhoGAM (50 µg) (250 IU)	Actual or threatened termination of pregnancy (spontaneous or induced) up to and including 12 weeks gestation Administer within 72 hours	RhoGAM may be administered if MICRhoGAM is not available.

\* : After delivery, obstetric complications, and/or invasive procedures, the volume of the fetal-maternal hemorrhage must be determined to calculate the exact dose of RhoGAM required.

- Administer RhoGAM every 12 weeks starting from first injection to maintain a level of passively acquired anti-D.
- If delivery occurs within three weeks after the last antepartum dose, the postpartum dose may be withheld, but a test for fetal-maternal hemorrhage should be performed to determine if exposure to > 15 mL of red blood cells has occurred.
- If delivery of the baby does not occur 12 weeks after the administration of the standard antepartum dose (at 26 to 28 weeks), a second dose is recommended to maximize protection antepartum.

### RhoGAM dosage

Each single dose prefilled syringe of RhoGAM contains 300 µg (1500 IU) of Rho(D) Immune Globulin (Human). This is the dose for the indications associated with pregnancy at or beyond 13 weeks unless there is clinical or laboratory evidence of a fetal-maternal hemorrhage (FMH) in excess of 15 mL of Rh-positive red blood cells.

### MICRhoGAM dosage

Each single dose prefilled syringe of MICRhoGAM contains 50 µg (250 IU) of Rho(D) Immune Globulin (Human). This dose will suppress the immune response to up to 2.5 mL of Rh-positive red blood cells. MICRhoGAM is indicated within 72 hours after

termination of pregnancy up to and including 12 weeks gestation. At or beyond 13 weeks gestation, RhoGAM should be administered instead of MICRhoGAM.

### Multiple Dosage

Multiple doses of RhoGAM are required if a FMH exceeds 15 mL, an event that is possible but unlikely prior to the third trimester of pregnancy and is most likely at delivery. Patients known or suspected to be at increased risk of FMH should be tested for FMH by qualitative or quantitative methods.<sup>3</sup> In efficacy studies, RhoGAM was shown to suppress Rh immunization in all subjects when given at a dose of > 20 µg per mL of Rh-positive red blood cells. Thus, a single dose of RhoGAM will suppress the immune response after exposure to < 15 mL of Rh-positive red blood cells. However, in clinical practice, laboratory methods used to determine the amount of exposure (volume of transfusion or FMH) to Rh-positive red blood cells are imprecise. Therefore, administration of more than 20 µg of RhoGAM per mL of Rh-positive red blood cells should be considered whenever a large FMH or red blood cell exposure is suspected or documented. Multiple doses may be administered at the same time or at spaced intervals, as long as the total dose is administered within three days of exposure.<sup>1</sup>

### Transfusion of Rh-incompatible blood or blood products

Administer within 72 hours of suspected or proven exposure to Rh-positive red blood cells.

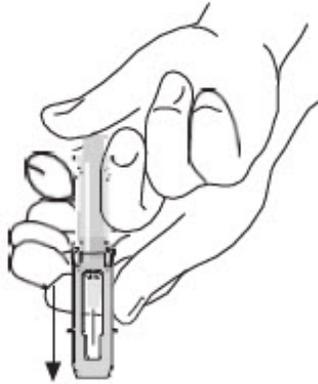
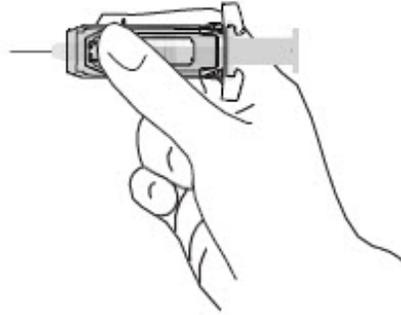
<b>Dose</b>	<b>Indication</b>	<b>Notes</b>
MICRhoGAM (50 µg) (250 IU)	< 2.5 mL Rh-positive red blood cells	RhoGAM may be administered if MICRhoGAM is not available.
RhoGAM (300 µg) (1500 IU)	2.5 - 15.0 mL Rh-positive red blood cells	
RhoGAM (300 µg) (1500 IU) (multiple syringes)	> 15.0 mL Rh-positive red blood cells	Additional doses of RhoGAM are indicated when the patient has been exposed to > 15 mL of Rh-positive red blood cells. Administer 20 µg of RhoGAM per mL of Rh-positive red blood cell exposure, rounding up to the next whole syringe. Multiple doses may be administered at the same time or at spaced intervals, as long as the total dose is administered within three days of exposure.

## **2.2 Administration**

- Visually inspect RhoGAM and MicRhoGAM for particulate matter, discoloration and syringe damage prior to administration.
- Do not use if particulate matter is observed.
- RhoGAM and MicRhoGAM are clear or slightly opalescent. Do not use if discolored.

- Administer injection per standard protocol.

Note: When administering RhoGAM intramuscularly, place fingers in contact with glass syringe barrel through windows in shield to prevent possible premature activation of safety guard.



After injection, to engage the safety guard, use free hand to slide safety guard over needle. An audible "click" indicates proper activation. Keep hands behind needle at all times. Dispose of the syringe in accordance with local regulations.

As with all blood products, patients should be observed for at least 20 minutes following administration of RhoGAM or MICRhoGAM.

### 3 DOSAGE FORMS AND STRENGTHS

- RhoGAM<sup>®</sup> Ultra-Filtered PLUS - 300 µg (1500 IU)<sup>1</sup> - Prefilled Syringes
- MICRhoGAM<sup>®</sup> Ultra-Filtered PLUS - 50 µg (250 IU)<sup>1</sup> - Prefilled Syringes

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<sup>1</sup> The anti-D content of RhoGAM / MICRhoGAM is expressed as µg per dose or as International Units (IU) per dose. The conversion factor is 1 µg = 5 IU.<sup>2</sup>

### 4 CONTRAINDICATIONS

The use of RhoGAM and MICRhoGAM is contraindicated in the following:

- Rh-positive individuals
- Patients with a known history of anaphylactic or severe systemic reactions to the administration of human immune globulin products.

### 5 WARNINGS AND PRECAUTIONS

#### 5.1 Hypersensitivity

Severe hypersensitivity reactions may occur with the use of RhoGAM/MICRhoGAM, even in patients who have tolerated previous administrations.

RhoGAM / MICRhoGAM contain a small quantity of IgA<sup>3</sup>. There is a potential risk of hypersensitivity in IgA deficient individuals. Although high doses of intravenous immune globulin containing IgA at levels of 270-720 µg/mL have been given without incident during treatment of patients with high-titer antibodies to IgA<sup>4</sup>, the attending physician must weigh the benefit against the potential risks of hypersensitivity reactions.

RhoGAM / MICRhoGAM should be administered in a setting where appropriate equipment, medications such as epinephrine, and personnel trained in the management of hypersensitivity, anaphylaxis, and shock are available.

## **5.2 Transmissible Infectious Agents**

Because RhoGAM and MICRhoGAM are made from human blood, they may carry a risk of transmitting infectious agents, e.g., viruses, the variant Creutzfeldt-Jakob disease (vCJD) and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent.

All infections thought by a physician possibly to have been transmitted by these products should be reported by the physician or other healthcare provider in the United States to Kedrion Biopharma Inc. at 1-855-3KDRION (1-855-353-7466). Outside the United States, the company distributing these products should be contacted. The physician should discuss the risks and benefits of these products with the patient.

## **5.3 Interference with Laboratory Tests**

After administration of Rho(D) immune globulin, a transitory increase of various passively transferred antibodies in the patient's blood may yield positive serological testing results, with the potential for misleading interpretation. Passive transmission of antibodies to erythrocyte antigens (e.g., A, B, C and E) and other blood group antibodies may cause a positive direct or indirect antiglobulin (Coombs') test.

Recovery of anti-D in plasma or serum after injection of RhoGAM or other Rho(D) Immune Globulin (Human) products is highly variable among individuals. Anti-D detection in a patient's plasma is dependent on assay sensitivity and time of sample collection post-injection. Currently there are no requirements or practice standards to test for the presence of anti-D in order to determine adequacy or efficacy of dose following an injection of RhoGAM.

The presence of passively acquired anti-D antibodies in the maternal serum may cause a positive antibody screening test. This does not preclude further antepartum or postpartum prophylaxis.

A large fetomaternal hemorrhage late in pregnancy or following delivery may cause a weak mixed field positive Du test result. Assess such an individual for a large fetomaternal hemorrhage and adjust the dose of Rho(D) immune globulin accordingly. The presence of passively administered anti Rho(D) in maternal or fetal blood can lead to a positive direct antiglobulin (Coombs') test. If there is an uncertainty about the father's Rh group or immune status, administer Rho(D) immune globulin to the mother.

## **5.4 Hemolysis**

### **Incompatible blood transfusion**

Administration of RhoGAM / MICRhoGAM to patients who are Rh-positive or have received Rh-positive red blood cells may result in signs and symptoms of a hemolytic

reaction, including fever, back pain, nausea and vomiting, hypo- or hypertension, hemoglobinuria/emia, elevated bilirubin and creatinine and decreased haptoglobin. Therefore, patients treated for Rh-incompatible transfusion should be monitored by clinical and laboratory means for signs and symptoms of a hemolytic reaction. Alert patients to, and monitor them for, the signs and symptoms of intravascular hemolysis, including back pain, shaking chills, fever, and discolored urine or hematuria. Absence of these signs and/or symptoms of intravascular hemolysis within 8 hours do not indicate intravascular hemolysis cannot occur subsequently.

## **6 ADVERSE REACTIONS**

The most frequently reported adverse reactions in patients receiving Rh<sub>0</sub>(D) Immune Globulin (Human) products are injection site reactions, such as swelling, induration, redness and mild pain or warmth. Possible systemic reactions are skin rash, body aches or a slight elevation in temperature. Severe systemic reactions include allergic reactions and hemolytic reactions (see *Warnings and Precautions [5.2]*).

There have been no reported fatalities due to anaphylaxis or any other cause related to RhoGAM or MICRhoGAM administration.

### **6.1 Clinical Studies Experience**

*Because clinical studies are conducted under different protocols and widely varying conditions, adverse reaction rates observed cannot be directly compared to rates in other clinical trials and may not reflect the rates observed in practice.*

No clinical studies with RhoGAM and MICRhoGAM have been conducted under the current Good Clinical Practices (GCP) Guidelines.

### **6.2 Postmarketing Experience**

*Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or to establish a causal relationship to Rho(D) Immune Globulin (Human) products.*

The following adverse reactions have been reported during post-approval use of RhoGAM/MICRhoGAM: hypersensitivity reactions, including cases of anaphylactic shock or anaphylactoid reactions, skin rash, erythema, pruritus, chill, pyrexia, malaise, and back pain. Transient injection-site irritation and pain have been reported following intramuscular administration.

## **7 DRUG INTERACTIONS**

### **7.1 Live Virus Vaccines**

Immune globulin preparations including Rho(D) Immune Globulin (Human) may impair the efficacy of live vaccines such as measles, mumps and varicella. Administration of live vaccines should generally be delayed until 12 weeks after the final dose of immune globulin. If an immune globulin is administered within 14 days after administration of a live vaccine, the immune response to the vaccination may be inhibited.<sup>5</sup>

Because of the importance of rubella immunity among women of childbearing age, the

postpartum vaccination of rubella-susceptible women with rubella or MMR vaccine should not be delayed because of the receipt of Rho(D) Immune Globulin (Human) during the last trimester of pregnancy or at delivery. Vaccination should occur immediately after delivery and if possible, testing should be performed after 3 or more months to ensure immunity to rubella and if necessary, to measles.<sup>5</sup>

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### *Risk Summary*

RhoGAM and/or MICRhoGAM is used in pregnant women for the suppression or Rh isoimmunization. The available evidence suggests that Rh<sub>o</sub>(D) Immune Globulin (Human) does not harm the fetus or affect future pregnancies or reproduction capacity when given to pregnant Rh<sub>o</sub>(D)-negative women for suppression of Rh isoimmunization.<sup>6</sup>

Animal reproduction studies have not been conducted with RhoGAM or MICRhoGAM.

### **8.2 Lactation**

#### *Risk Summary*

RhoGAM or MICRhoGAM can be used during breastfeeding. Immunoglobulins are excreted in human milk.

### **8.4 Pediatric Use**

Safety and effectiveness in pediatric patients have not been established.

### **8.5 Geriatric Use**

No clinical studies have been performed in geriatric subjects.

## **10 OVERDOSAGE**

There are no reports of known overdoses in patients being treated with RhoGAM or MICRhoGAM.

## **11 DESCRIPTION**

RhoGAM and MICRhoGAM Rho(D) Immune Globulin (Human) are sterile solutions containing immunoglobulin G (IgG) anti-D (anti-Rh) for use in preventing Rh immunization. They are manufactured from human plasma containing anti-D from Rh-negative donors immunized with Rh-positive red blood cells. A single dose of RhoGAM contains sufficient anti-D (300 µg or 1500 IU) to suppress the immune response to up to 15 mL of Rh-positive red blood cells.<sup>7</sup> A single dose of MICRhoGAM contains sufficient anti-D (50 µg or 250 IU) to suppress the immune response to up to 2.5 mL of Rh-positive red blood cells. The anti-D dose is measured by comparison to the RhoGAM in-house reference standard, the potency of which is established relative to the U.S./World Health Organization/European Pharmacopoeia Standard Anti-D Immune Globulin Rho(D) Immune Globulin (Human).<sup>8</sup>

Plasma for RhoGAM is typically sourced from a donor center owned and operated by KEDPlasma LLC., US Lic. No. 1876. All donors are carefully screened by history and laboratory testing to reduce the risk of transmitting blood-borne pathogens from infected donors. Each plasma donation is tested and found to be non-reactive for the presence of hepatitis B surface antigen (HBsAg) and antibodies to hepatitis C (HCV) and human immunodeficiency viruses (HIV) 1 and 2. Additionally, plasma is tested by FDA licensed Nucleic Acid Testing (NAT) for hepatitis B virus (HBV), HCV and HIV-1. Each plasma unit must be negative (non-reactive) in all tests. Plasma is tested by in-process NAT procedures for hepatitis A virus (HAV) and parvovirus B19 (B19) in a minipool format. Only plasma that has passed virus screening is used for production. The NAT procedure for B19 detects all three genotypes based upon sequence alignment of known virus isolates. The limit of B19 DNA in the manufacturing pool is set not to exceed  $10^4$  IU per mL.

Fractionation of the plasma is performed by a modification of the cold alcohol procedure that has been shown to significantly lower viral titers.<sup>3</sup> Following plasma fractionation, a viral clearance filtration step and a viral inactivation step are performed. The viral filtration step removes viruses via a size-exclusion mechanism utilizing a Viresolve 180 nanofiltration membrane (ultrafiltration mode) to remove enveloped and non-enveloped viruses.

Following viral filtration, quality control tests (CorrTest and diffusion test) are performed on the Viresolve 180 nanofiltration membrane to ensure filter integrity.<sup>9</sup> The viral inactivation step utilizes Triton X-100 and tri-n-butyl phosphate (TNBP) to inactivate enveloped viruses such as HCV, HIV and West Nile Virus (WNV).<sup>3,10</sup>

The donor selection process, the fractionation process, the viral filtration step and the viral inactivation process increase product safety by reducing the virus load and thus the risk of transmission of enveloped and non-enveloped viruses. Rho(D) Immune Globulin (Human) intended for intramuscular use and prepared by cold alcohol fractionation has not been shown to transmit hepatitis or other infectious diseases.<sup>11</sup> There have been no documented cases of infectious disease transmission by RhoGAM or MICRhoGAM.

Laboratory spiking studies<sup>3,12</sup> have shown that the cumulative viral removal and inactivation capability of the RhoGAM / MICRhoGAM manufacturing process is as follows:

<b>Virus</b>	<b>HIV-1</b>	<b>BVDV</b>	<b>PRV</b>	<b>PPV</b>	<b>EMC</b>
Lipid Enveloped	Yes	Yes	Yes	No	No
Size (nm)	80-120	40-70	120-200	18-24	25-30
Genome	ss-RNA	ss-RNA	ds-DNA	ss-DNA	ss-RNA
<b>Step</b>					
Methanol precipitation	5.16	4.46	4.95	4.02	4.57
CUNO Depth filtration	≥ 4.95	2.53	2.34	3.83	Not Significant (<1 Log)
Viral Grade Filtration (Nanofiltration)	≥ 3.35 (≥ 4.76)*	≥ 3.67 (≥ 5.02)*	≥ 3.09 (≥ 4.19)*	4.88	4.63
Solvent/Detergent treatment	≥ 5.08	≥ 4.47	≥ 4.05	N/A	N/A

<b>Total Viral Reduction</b>	<b>≥ 18.54</b>	<b>≥ 15.13</b>	<b>≥ 14.43</b>	<b>12.73</b>	<b>9.20</b>
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Note : Data of viral removal/inactivation capability was generated from Kedrion Biopharma Inc. RhoGAM / MICRhoGAM can be manufactured at both Kedrion Biopharma Inc. and Ortho Clinical Diagnostics Inc. up to drug substance: regardless of which product is administered (manufactured at Kedrion Biopharma Inc. or Ortho Clinical Diagnostics Inc.) data of viral removal/inactivation are applicable to both processes (Ortho and Kedrion Biopharma Inc.).

Units = log<sub>10</sub> reduction

HIV Human Immunodeficiency Virus, Relevant virus for HIV-1 and 2 and model virus for Human T-cell Lymphotropic Virus (HTLV) 1 and 2

BVDV Bovine Viral Diarrhea Virus, Model for Hepatitis C Virus and West Nile Virus (WNV)

PRV Pseudorabies Virus, Model for large enveloped DNA viruses such as Herpes Viruses

PPV Porcine Parvovirus, Model for Parvovirus B19

EMC Encephalomyocarditis Virus, Model for Hepatitis A Virus

N/A Not Applicable

\* The lower reduction value was used for the calculation of overall reduction factors (log10).

The safety of Rh<sub>0</sub>(D) Immune Globulin (Human) has been further shown in an empirical study of viral marker rates in female blood donors in the United States.<sup>13</sup> This study revealed that Rh-negative donors, of whom an estimated 55-60% had received Rh(D) Immune Globulin (Human) for pregnancy-related indications, had prevalence and incidence viral marker rates similar to those of Rh-positive female donors who had not received Rh(D) Immune Globulin (Human).

The final product contains 5 ± 1% IgG, 2.9 mg/mL sodium chloride, 0.01% Polysorbate 80 (non-animal derived) and 15 mg/mL glycine. Small amounts of IgA, typically less than 15 µg per dose, are present.<sup>3</sup> The pH range is 6.20 - 7.00 and IgG purity is > 98%. The product contains no added human serum albumin (HSA), no thimerosal or other preservatives and utilizes a latex-free delivery system.

RhoGAM Ultra-Filtered PLUS and MICRhoGAM Ultra-Filtered PLUS are manufactured for Kedrion Biopharma Inc. either by Ortho-Clinical Diagnostics, Inc. or by Kedrion Biopharma Inc. up to the bulk products, and all are filled and packaged by Kedrion Biopharma Inc., 155 Duryea Road, Melville, NY 11747 USA.

## **12 CLINICAL PHARMACOLOGY**

### **12.1 Mechanism of Action**

RhoGAM and MICRhoGAM act by suppressing the immune response of Rh-negative individuals to Rh-positive red blood cells. The mechanism of action is unknown. RhoGAM, MICRhoGAM and other Rh(D) Immune Globulin (Human) products are not effective in altering the course or consequences of Rh immunization once it has occurred.

### **12.2 Pharmacodynamics**

#### *Use after Rh-Incompatible Transfusion*

An Rh-negative individual transfused with one unit of Rh-positive red blood cells has about an 80% likelihood of producing anti-D. However, Rh immunization can occur after

exposure to < 1 mL of Rh-positive red blood cells. Protection from Rh immunization is accomplished by administering > 20 µg of RhoGAM or MICRhoGAM per mL of Rh-positive red blood cells within 72 hours of transfusion of incompatible red blood cells.<sup>14,15,16</sup>

### 12.3 Pharmacokinetics

Pharmacokinetic studies after intramuscular injection were performed on sixteen Rh-negative subjects receiving a single dose of (368 µg or 1840 IU) RhoGAM.<sup>3</sup> Plasma anti-D levels were monitored for thirteen weeks using a validated Automated Quantitative Hemagglutination method with sensitivity of approximately 1 ng/mL. The following mean pharmacokinetic parameters were obtained from data collected over the first ten weeks of a thirteen-week study:

Parameter	Mean	SD	Units
Maximum plasma concentration obtained (C <sub>max</sub> )	54.0	13.0	ng/mL
Time to attain C <sub>max</sub> (T <sub>max</sub> )	4		days
Elimination half-life (T <sub>1/2</sub> )	30.9	13.8	days
Volume of distribution (V <sub>d</sub> )	7.3	1.5	liters
Clearance (CL)	150.4	53.3	mL/day

## 14 CLINICAL STUDIES

Rho(D) Immune Globulin (Human) administered at 28 weeks, as well as within 72 hours of delivery, has been shown to reduce the Rh immunization rate to about 0.1-0.2%.<sup>15,16</sup> Clinical studies demonstrated that administration of MICRhoGAM within three hours following pregnancy termination was 100% effective in preventing Rh immunization.<sup>17</sup>

Multiple studies have been performed that prove the safety and efficacy of RhoGAM in both the obstetrical and post transfusion settings.

Freda, Gorman and colleagues<sup>18</sup> studied the efficacy of RhoGAM in the postpartum setting in a randomized, controlled study completed in 1967. The control group received no immunoglobulin therapy after delivery, while the test group received 300 µg of RhoGAM intramuscularly within 72 hours of delivery of an Rh-positive infant. Six months after delivery, the incidence of Rh immunization in the control group was 6.4% (32/499) versus 0.13% (1/781) in the RhoGAM group (p < 0.001).

Pollack et al. performed two randomized, placebo-controlled studies in the post transfusion setting that were designed to establish the dose response relationship of RhoGAM. In the first study,<sup>7</sup> 178 (176 males, 2 females) Rh-negative volunteers received varying volumes of Rh- positive red cells; 92 subjects then received RhoGAM. A single dose of RhoGAM (1.1 mL @ 267 µg/mL) was shown to suppress anti-D formation after injection of up to 15.1 mL of Rh-positive red cells. In a companion study, Pollack administered 500 mL of Rh-positive whole blood to 44 Rh-negative male volunteers. Twenty-two (22) subjects received 20 µg RhoGAM per mL of Rh-positive red cells and 22 received no RhoGAM. None of the RhoGAM-treated subjects developed anti-D; 18/22 control arm subjects developed anti-D (p < 0.0001).

Human clinical studies<sup>3</sup> were subsequently performed to prove the efficacy of

MICRhoGAM and the low protein (5%) formulations. In the MICRhoGAM study, 81 Rh-negative male volunteers received an initial injection of 2.5 mL Rh-positive red cells, followed by a booster injection (0.1 mL) of red cells at 26 weeks; 40 subjects received an injection of MICRhoGAM after the initial red cell injection. None of the subjects who received MICRhoGAM developed anti-D, both before and after the booster red cell injection. A similar study was performed in 1985 using the low protein formulation of RhoGAM. None of the 30 Rh-negative male volunteers who received RhoGAM after injection of 15 mL of Rh-positive red cells developed anti-D.

## 15 REFERENCES

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## 16 HOW SUPPLIED / STORAGE AND HANDLING

The following presentations of RhoGAM are available:

<b>Presentation</b>	<b>Product description/ package sizes</b>	<b>Carton NDC number</b>	<b>Primary container NDC number</b>
RhoGAM® Ultra-Filtered PLUS (300 µg) (1500 IU) - Carton of <b>1</b> syringe	1 prefilled single-dose syringe in a pouch, 1 package insert, 1 control form, 1 patient identification card	NDC 0562-7805-01	prefilled single-dose syringe NDC 0562-7805-00
RhoGAM® Ultra-Filtered PLUS (300 µg) (1500 IU) - Carton of <b>5</b> syringes	5 prefilled single-dose syringe in a pouch, 5 package insert, 5 control form, 5 patient identification card	NDC 0562-7805-05	
RhoGAM® Ultra-Filtered PLUS (300 µg) (1500 IU) - Carton of <b>25</b> syringes	25 prefilled single-dose syringe in a pouch, 25 package insert, 25 control form, 25 patient identification card	NDC 0562-7805-25	

The following presentations of MICRhoGAM are available:

<b>Presentation</b>	<b>Product description/ package sizes</b>	<b>Carton NDC number</b>	<b>Primary container NDC number</b>
MICRhoGAM Ultra-Filtered PLUS (50 µg) (250 IU) - Carton of <b>1</b> syringe	1 prefilled single-dose syringe in a pouch, 1 package insert, 1 control form, 1 patient identification card	NDC 0562-7806-01	prefilled single-dose syringe NDC 0562-7806-00
MICRhoGAM Ultra-Filtered PLUS (50 µg) (250 IU) - Carton of <b>5</b> syringes	5 prefilled single-dose syringe in a pouch, 5 package insert, 5 control form, 5 patient identification card	NDC 0562-7806-05	
MICRhoGAM Ultra-	25 prefilled single-dose syringe in a pouch, 25		

Filtered PLUS (50 µg) (250 IU) – Carton of <b>25</b> syringes	syringe in a pouch, 25 package insert, 25 control form, 25 patient identification card	NDC 0562- 7806-25	
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Store at 2 to 8°C. Do not store frozen.

Do not use after the expiration date printed on the syringe.

## 17 PATIENT COUNSELING INFORMATION

Please inform patients of the following:

- The risks and benefits of RhoGAM and MicRhoGAM.
- The most common adverse reactions are local reactions including swelling, induration, redness and mild pain at the site of injection, and a small number of patients have noted a slight elevation in temperature.
- Allergic reactions to RhoGAM and MICRhoGAM may occur. Patients should be observed for at least 20 minutes after administration. Signs of hypersensitivity reactions include hives, generalized urticaria, tightness of the chest, wheezing, hypotension and anaphylaxis.
- RhoGAM and MICRhoGAM may interfere with the response to live virus vaccines (e.g., measles, mumps, rubella, and varicella). Instruct patients to notify their healthcare professional of this potential interaction when they are receiving vaccinations.
- RhoGAM and MICRhoGAM are prepared from human plasma and may contain infectious agents that can cause disease. Numerous tests have been applied in the plasma collection process and specific viral inactivation steps have been added to the manufacturing process to minimize the risk of transmission of diseases, but all risk cannot be eliminated.
- Retain the RhoGAM Patient Identification Card and advise the patient to retain the card and present it to other health care providers when appropriate.

### SUMMARY OF REVISIONS

Revised to reflect the current manufacturing arrangement, up to the bulk products by either Ortho-Clinical Diagnostics, Inc. or by Kedrion Biopharma Inc., and then the final drug products by Kedrion Biopharma Inc., in section 11 DESCRIPTION and other relevant places.

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**Kedrion Biopharma Inc.**, 155 Duryea Road, Melville, NY 11747 USA

Manufactured for Kedrion Biopharma Inc. either by Ortho-Clinical Diagnostics, Inc. or by Kedrion Biopharma Inc. up to the bulk products, filled and packaged by Kedrion Biopharma Inc.

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Printed in U.S.A.

Made by methods of

U.S. Pat. 6,096,872

U.S. Pat. 7,655,233

8060058

**CONTROL FORM Rh<sub>0</sub>(D) Immune Globulin (Human) RhoGAM<sup>®</sup> and MICRhoGAM<sup>®</sup> Ultra-Filtered PLUS**

Hospital \_\_\_\_\_

ATTENTION LABORATORY	ATTENTION OBSTETRICAL SERVICE								
Patient's Name _____ Hospital No. _____ Room No. _____ <input type="checkbox"/> Patient is Rh negative _____ Date _____ <input type="checkbox"/> Baby's Rh <sub>0</sub> (D) type is positive or unknown _____ Date _____ <input type="checkbox"/> FMH screening test performed, if indicated _____ Date _____ LOT NO. OF RhoGAM _____ EXP. _____ or MICRhoGAM ISSUED _____ DATE _____ (circle product administered) Tech. _____	<b>IMPORTANT</b> 1. Establish patient identification before injecting this single dose of RhoGAM or MICRhoGAM intramuscularly. 2. Verify the lot number and expiration date of RhoGAM or MICRhoGAM recorded on this form with the lot number and expiration date printed on the prefilled syringe of RhoGAM or MICRhoGAM. 3. Retain this form for verification of administration of RhoGAM or MICRhoGAM. Date RhoGAM or MICRhoGAM injected _____ <table border="1"> <thead> <tr> <th>ANTEPARTUM</th> <th>POSTPARTUM</th> </tr> </thead> <tbody> <tr> <td>After amniocentesis <input type="checkbox"/></td> <td>Abortion <input type="checkbox"/></td> </tr> <tr> <td>28-week prophylaxis <input type="checkbox"/></td> <td>Full-term delivery <input type="checkbox"/></td> </tr> <tr> <td>Other indication <input type="checkbox"/></td> <td></td> </tr> </tbody> </table> (specify) _____ Delivered/Terminated _____ Date _____ Gestational age _____ Attending physician _____	ANTEPARTUM	POSTPARTUM	After amniocentesis <input type="checkbox"/>	Abortion <input type="checkbox"/>	28-week prophylaxis <input type="checkbox"/>	Full-term delivery <input type="checkbox"/>	Other indication <input type="checkbox"/>	
ANTEPARTUM	POSTPARTUM								
After amniocentesis <input type="checkbox"/>	Abortion <input type="checkbox"/>								
28-week prophylaxis <input type="checkbox"/>	Full-term delivery <input type="checkbox"/>								
Other indication <input type="checkbox"/>									

Part 1

**CONTROL FORM Rh<sub>0</sub>(D) Immune Globulin (Human) RhoGAM<sup>®</sup> and MICRhoGAM<sup>®</sup> Ultra-Filtered PLUS**

Hospital \_\_\_\_\_

ATTENTION LABORATORY	ATTENTION OBSTETRICAL SERVICE								
Patient's Name _____ Hospital No. _____ Room No. _____ <input type="checkbox"/> Patient is Rh negative _____ Date _____ <input type="checkbox"/> Baby's Rh <sub>0</sub> (D) type is positive or unknown _____ Date _____ <input type="checkbox"/> FMH screening test performed, if indicated _____ Date _____ LOT NO. OF RhoGAM _____ EXP. _____ or MICRhoGAM ISSUED _____ DATE _____ (circle product administered) Tech. _____	<b>IMPORTANT</b> 1. Establish patient identification before injecting this single dose of RhoGAM or MICRhoGAM intramuscularly. 2. Verify the lot number and expiration date of RhoGAM or MICRhoGAM recorded on this form with the lot number and expiration date printed on the prefilled syringe of RhoGAM or MICRhoGAM. 3. Retain this form for verification of administration of RhoGAM or MICRhoGAM. Date RhoGAM or MICRhoGAM injected _____ <table border="1"> <thead> <tr> <th>ANTEPARTUM</th> <th>POSTPARTUM</th> </tr> </thead> <tbody> <tr> <td>After amniocentesis <input type="checkbox"/></td> <td>Abortion <input type="checkbox"/></td> </tr> <tr> <td>28-week prophylaxis <input type="checkbox"/></td> <td>Full-term delivery <input type="checkbox"/></td> </tr> <tr> <td>Other indication <input type="checkbox"/></td> <td></td> </tr> </tbody> </table> (specify) _____ Delivered/Terminated _____ Date _____ Gestational age _____ Attending physician _____	ANTEPARTUM	POSTPARTUM	After amniocentesis <input type="checkbox"/>	Abortion <input type="checkbox"/>	28-week prophylaxis <input type="checkbox"/>	Full-term delivery <input type="checkbox"/>	Other indication <input type="checkbox"/>	
ANTEPARTUM	POSTPARTUM								
After amniocentesis <input type="checkbox"/>	Abortion <input type="checkbox"/>								
28-week prophylaxis <input type="checkbox"/>	Full-term delivery <input type="checkbox"/>								
Other indication <input type="checkbox"/>									

Part 2 - LABORATORY RECORD

**CONTROL FORM Rh<sub>0</sub>(D) Immune Globulin (Human) RhoGAM<sup>®</sup> and MICRhoGAM<sup>®</sup> Ultra-Filtered PLUS**

Hospital \_\_\_\_\_

ATTENTION LABORATORY	ATTENTION OBSTETRICAL SERVICE														
Patient's Name _____ Hospital No. _____ Room No. _____ <input type="checkbox"/> Patient is Rh negative _____ Date _____ <input type="checkbox"/> Baby's Rh <sub>0</sub> (D) type is positive or unknown _____ Date _____ <input type="checkbox"/> FMH screening test performed, if indicated _____ Date _____ LOT NO. OF RhoGAM or MICRhoGAM ISSUED _____ EXP. DATE _____ (circle product administered) Tech. _____	<b>IMPORTANT</b> 1. Establish patient identification before injecting this single dose of RhoGAM or MICRhoGAM intramuscularly. 2. Verify the lot number and expiration date of RhoGAM or MICRhoGAM recorded on this form with the lot number and expiration date printed on the prefilled syringe of RhoGAM or MICRhoGAM. 3. Retain this form for verification of administration of RhoGAM or MICRhoGAM. Date RhoGAM or MICRhoGAM injected _____ <table border="1"> <thead> <tr> <th>ANTEPARTUM</th> <th>POSTPARTUM</th> </tr> </thead> <tbody> <tr> <td>After amniocentesis <input type="checkbox"/></td> <td>Abortion <input type="checkbox"/></td> </tr> <tr> <td>28-week prophylaxis <input type="checkbox"/></td> <td>Full-term delivery <input type="checkbox"/></td> </tr> <tr> <td>Other indication <input type="checkbox"/></td> <td></td> </tr> <tr> <td>(specify) _____</td> <td>Delivered/Terminated _____ Date _____</td> </tr> <tr> <td>Gestational age _____</td> <td></td> </tr> <tr> <td>Attending physician _____</td> <td></td> </tr> </tbody> </table>	ANTEPARTUM	POSTPARTUM	After amniocentesis <input type="checkbox"/>	Abortion <input type="checkbox"/>	28-week prophylaxis <input type="checkbox"/>	Full-term delivery <input type="checkbox"/>	Other indication <input type="checkbox"/>		(specify) _____	Delivered/Terminated _____ Date _____	Gestational age _____		Attending physician _____	
ANTEPARTUM	POSTPARTUM														
After amniocentesis <input type="checkbox"/>	Abortion <input type="checkbox"/>														
28-week prophylaxis <input type="checkbox"/>	Full-term delivery <input type="checkbox"/>														
Other indication <input type="checkbox"/>															
(specify) _____	Delivered/Terminated _____ Date _____														
Gestational age _____															
Attending physician _____															

Part 3 - RETURN TO HOSPITAL LABORATORY

**PATIENT IDENTIFICATION CARD**

Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

**I AM Rh NEGATIVE.** I have received a protective injection of RhoGAM<sup>®</sup> or MICRhoGAM<sup>®</sup> Rho(D) Immune Globulin (Human) Ultra-Filtered PLUS. **IMPORTANT:** Anti-Rh antibody (also called anti-D) will be present in my blood for several weeks after the injection, and may be detectable by laboratory testing. The presence of this passive anti-Rh antibody does not disqualify me from receiving additional injections of RhoGAM or MICRhoGAM as indicated and prescribed by my physician.

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**Rh<sub>0</sub>(D) Immune Globulin (Human)  
RhoGAM<sup>®</sup> and MICRhoGAM<sup>®</sup>  
Ultra-Filtered PLUS**

This 3-part form contains:

- Directions for Use
- Patient Control Form
- Patient Identification Card

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Manufactured for Kedrion Biopharma Inc. by either Ortho-Clinical Diagnostics, Inc. or by Kedrion Biopharma Inc. up to the bulk products, filled and packaged by Kedrion Biopharma Inc.

8060058

Date of Injection of RhoGAM or MICRhoGAM  
(circle product administered)

Lot No.

Exp. Date

Injection was:  at pregnancy termination  
 during pregnancy  
 after delivery

Attending Physician

Physician's Telephone Number

**PRINCIPAL DISPLAY PANEL - 300 µg Syringe Label**

(243)0008060065

SEE DIRECTIONS FOR USE

Rh<sub>0</sub>(D) IMMUNE  
GLOBULIN (HUMAN)  
RhoGAM<sup>®</sup> Ultra-Filtered PLUS  
300 µg (1500 IU) Dose

KEDRION BIOPHARMA INC.  
MELVILLE, NY 11747 USA  
U.S. LICENSE 1906



(01)00305627805008

**PRINCIPAL DISPLAY PANEL - 300 µg Syringe Pouch Label**

↑ TEAR HERE

Rh<sub>0</sub>(D) Immune Globulin (Human)

RhoGAM<sup>®</sup>  
Ultra-Filtered PLUS  
300 µg Dose (1500 IU\*)  
\*International Units

Rx Only

Thimerosal-Free

Latex-Free Delivery System

Name \_\_\_\_\_

Room No. \_\_\_\_\_

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NDC 0562-7805-00

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(243)0008060066

TEAR HERE ↑

TAMPER RESISTANT:

POUCH SEALED

FOR SAFETY

TO USE: Screw plunger into  
stopper in syringe barrel.

The patient and physician  
should discuss the risks and  
benefits of this product.

↑ TEAR HERE

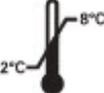
**Rh<sub>0</sub>(D) Immune Globulin (Human)**



**RhoGAM<sup>®</sup>**  
**Ultra-Filtered PLUS**  
**300 µg Dose (1500 IU\*)**  
\*International Units  
**Rx Only**  
**Thimerosal-Free**  
**Latex-Free Delivery System**

Name \_\_\_\_\_

Room No. \_\_\_\_\_



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**TAMPER RESISTANT:  
POUCH SEALED  
FOR SAFETY**

**TO USE: Screw plunger into  
stopper in syringe barrel.**

**The patient and physician  
should discuss the risks and  
benefits of this product.**

**PRINCIPAL DISPLAY PANEL - 300 µg Syringe Pouch Label (Rework)**

↑ TEAR HERE

Rh<sub>0</sub>(D) Immune Globulin (Human)

RhoGAM®

Ultra-Filtered PLUS

300 µg Dose (1500 IU\*)

\*International Units

Rx Only

Thimerosal-Free

Latex-Free Delivery System

Name \_\_\_\_\_

Room No. \_\_\_\_\_

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(243)0008060067

TEAR HERE ↑

TAMPER RESISTANT:

POUCH SEALED

FOR SAFETY

TO USE: Screw plunger into  
stopper in syringe barrel.

The patient and physician  
should discuss the risks and  
benefits of this product.

↑ TEAR HERE

TEAR HERE ↑

**Rh<sub>0</sub>(D) Immune Globulin (Human)**  
**RhoGAM<sup>®</sup>**  
**Ultra-Filtered PLUS**  
**300 µg Dose (1500 IU\*)**  
\*International Units  
**Rx Only**  
**Thimerosal-Free**  
**Latex-Free Delivery System**



Name \_\_\_\_\_  
Room No. \_\_\_\_\_

See Directions for Use



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(243)0008060067

**TAMPER RESISTANT:  
POUCH SEALED  
FOR SAFETY**

**TO USE:** Screw plunger into  
stopper in syringe barrel.

The patient and physician  
should discuss the risks and  
benefits of this product.

## PRINCIPAL DISPLAY PANEL - 300 µg Syringe Pouch Carton - 01

Rh<sub>0</sub>(D) Immune Globulin (Human)  
RhoGAM<sup>®</sup>  
Ultra-Filtered PLUS – 300 µg Dose (1500 IU\*)  
Thimerosal-Free  
\*International Units

Do not store frozen

See Directions for Use

Package Contains:

- 1 prefilled syringe containing a single dose of RhoGAM
- 1 control form
- 1 package insert
- 1 patient identification card

1 single dose

Active ingredient:

Anti-D Rho Immune Globulin (300 µg), the potency of which is determined relative to the US/WHO/EP Standard Anti-D Immunoglobulin Rho(D) Immune Globulin (Human)  
CBER Lot 4: NIBSC Lot 01/572 (285 IU/ampoule)

Inactive ingredients:

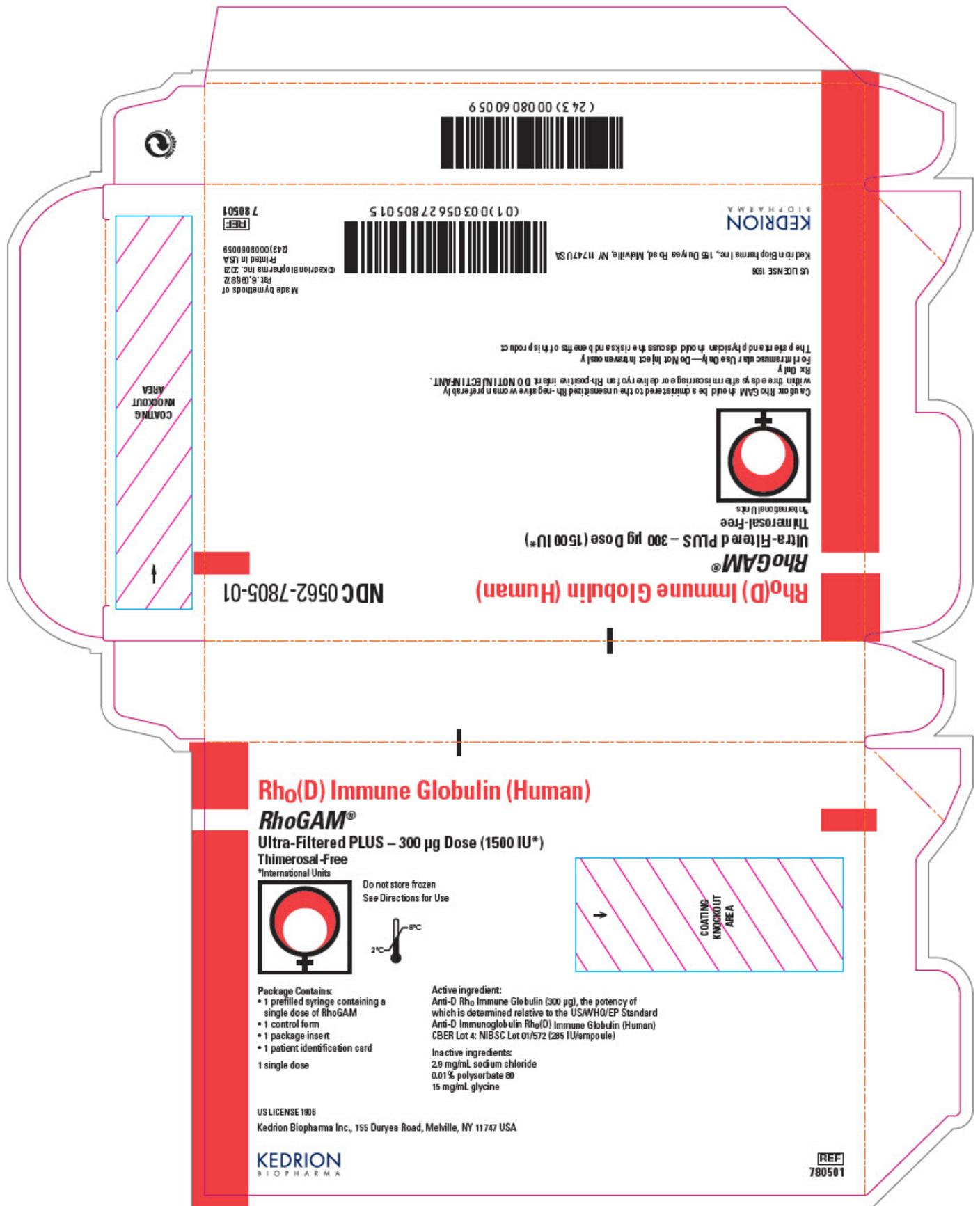
2.9 mg/mL sodium chloride  
0.01% polysorbate 80  
15 mg/mL glycine

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KEDRION  
BIOPHARMA

REF  
780501



**PRINCIPAL DISPLAY PANEL - 300 µg Syringe Pouch Carton - 05**

Rh<sub>0</sub>(D) Immune Globulin (Human)  
 RhoGAM®

Ultra-Filtered PLUS - 300 µg Dose (1500 IU\*)

Thimerosal-Free

\*International Units

Caution: RhoGAM should be administered to the unsensitized Rh-negative woman preferably within three days after miscarriage or delivery of an Rh-positive infant. DO NOT INJECT INFANT.

Rx Only

For Intramuscular Use Only—Do Not Inject Intravenously

The patient and physician should discuss the risks and benefits of this product.

REF

780505

**Rh<sub>0</sub>(D) Immune Globulin (Human)**

**RhoGAM<sup>®</sup>**

Ultra-Filtered PLUS – 300 µg Dose (1500 IU\*)

Thimerosal-Free

\*International Units



Caution: RhoGAM should be administered to the unsensitized Rh-negative woman preferably within three days after miscarriage or delivery of an Rh-positive infant. **DO NOT INJECT INFANT.**  
Rx Only  
For Intramuscular Use Only—Do Not Inject Intravenously  
The patient and physician should discuss the risks and benefits of this product.

REF  
780505

**Rh<sub>0</sub>(D) Immune Globulin (Human)**

**RhoGAM<sup>®</sup>**

Ultra-Filtered PLUS – 300 µg Dose (1500 IU\*)

Thimerosal-Free

\*International Units



REF  
780505



(243)0008060060

Overlapped area  
No Copy

REF  
780505

KEDRION  
BIOPHARMA

Kedron Biopharma Inc., 155 Duryea Road, Melville, NY 11747 USA

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0.01% polysorbate 80

2.8 mg/mL sodium chloride

Inactive ingredients:

Active ingredients:

Ar-D-Rho immune globulin (500 µg) the potency

which is determined relative to the US NWHQEP Standard

Ar-D Immune globulin Rho(D) Immune Globulin (Human)

CBER Lot #: NIBSC Lot 101/572 (285 IU/ampoule)



• 5 particle microaction cards

• 5 packaging inserts

• 5 control forms

• a single dose of Rh<sub>0</sub>(D) AM

• 5 particle syringes each containing



Thimerosal-Free

Ultra-Filtered PLUS – 300 µg Dose (1500 IU\*)

**RhoGAM<sup>®</sup>**  
**Rh<sub>0</sub>(D) Immune Globulin (Human)**

**Rh<sub>0</sub>(D) Immune Globulin (Human)**

**RhoGAM<sup>®</sup>**

Ultra-Filtered PLUS – 300 µg Dose (1500 IU\*)

Thimerosal-Free

\*International Units

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REF  
780505

**Rh<sub>0</sub>(D) Immune Globulin (Human)**

**RhoGAM<sup>®</sup>**

Ultra-Filtered PLUS – 300 µg Dose (1500 IU\*)

Thimerosal-Free

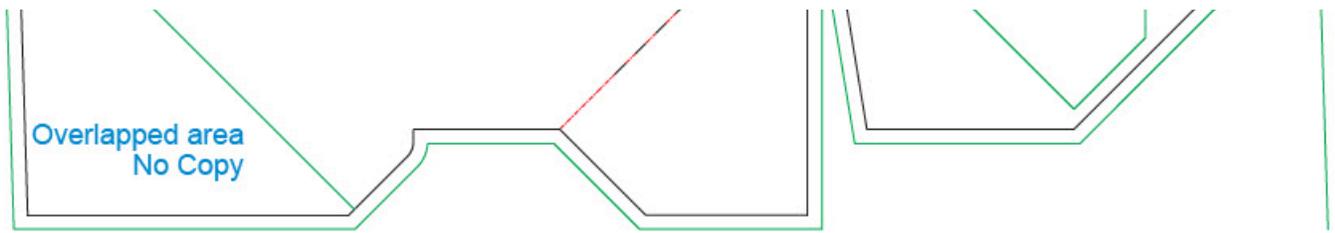
\*International Units



Do not store frozen  
See Directions for Use



REF  
780505



## **PRINCIPAL DISPLAY PANEL - 300 µg Syringe Pouch Carton - 25**

Rh<sub>0</sub>(D) Immune Globulin (Human)

RhoGAM<sup>®</sup>

Ultra-Filtered PLUS - 300 µg Dose (1500 IU\*)

Thimerosal-Free

\*International Units

Caution: RhoGAM should be administered to the unsensitized Rh-negative woman preferably within three days after miscarriage or delivery of an Rh-positive infant. DO NOT INJECT INFANT.

Rx Only

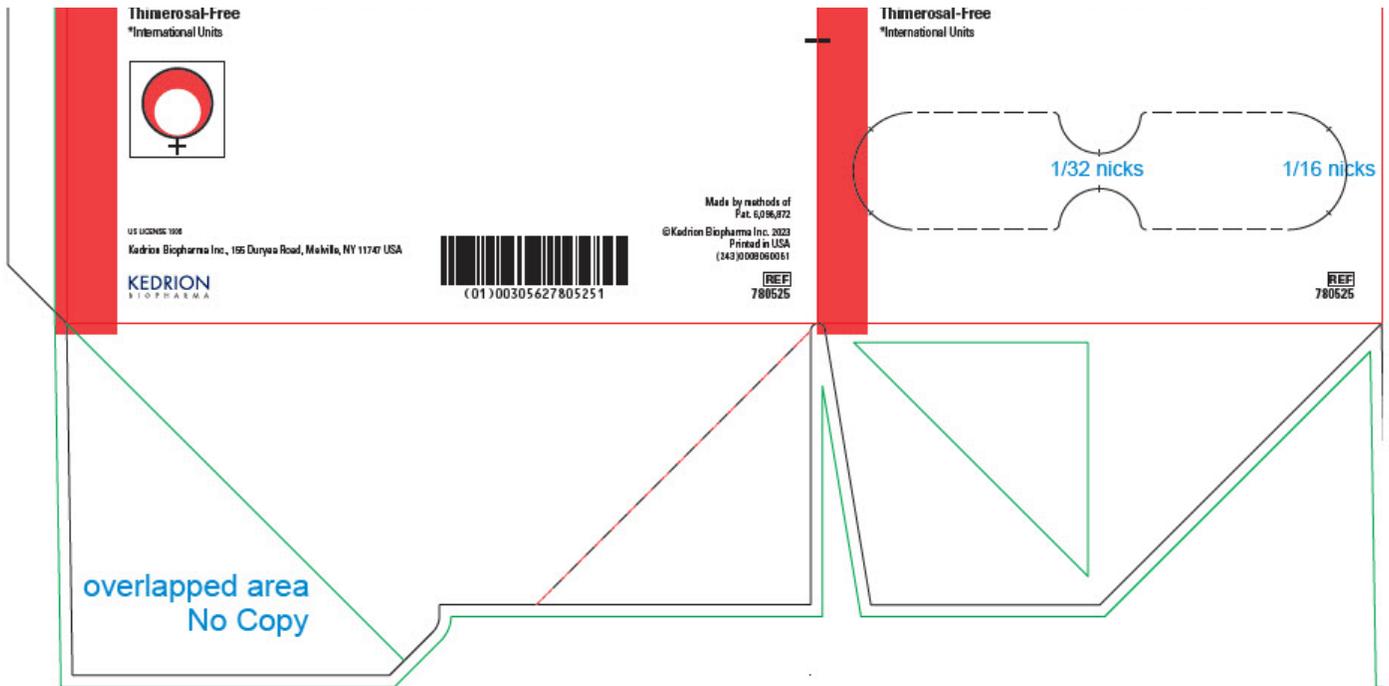
For Intramuscular Use Only—Do Not Inject Intravenously

The patient and physician should discuss the risks and benefits of this product.

REF

780525





## PRINCIPAL DISPLAY PANEL - 50 µg Syringe Label

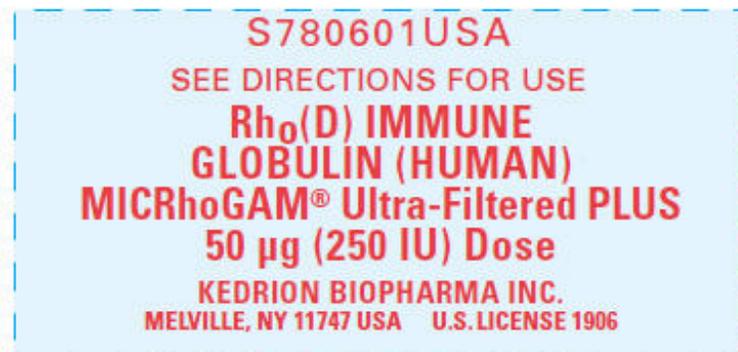
S780601USA

SEE DIRECTIONS FOR USE

Rh<sub>0</sub>(D) IMMUNE  
GLOBULIN (HUMAN)  
MICRhoGAM<sup>®</sup> Ultra-Filtered PLUS  
50 µg (250 IU) Dose

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MELVILLE, NY 11747 USA  
U.S. LICENSE 1906

NDC 0562-7806-00



NDC 0562-7806-00

**PRINCIPAL DISPLAY PANEL - 50 µg Syringe Pouch Label**

TEAR HERE

Rh<sub>0</sub>(D) Immune Globulin (Human)

MICRhOGAM<sup>®</sup>

Ultra-Filtered PLUS

50 µg Dose (250 IU\*)

\*International Units

Rx Only

Thimerosal-Free

Latex-Free Delivery System

Name \_\_\_\_\_

Room No. \_\_\_\_\_

See Directions for Use

US LICENSE 1906

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Made by methods of

Pat. 6,096,872

KEDRION

BIOPHARMA

NDC 0562-7806-00

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P780601USA

TEAR HERE

TAMPER RESISTANT:

POUCH SEALED

FOR SAFETY

TO USE: Screw plunger into  
stopper in syringe barrel.

The patient and physician  
should discuss the risks and  
benefits of this product.

↑ TEAR HERE

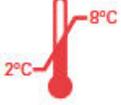
**Rh<sub>0</sub>(D) Immune Globulin (Human)**



**MICRhoGAM<sup>®</sup>**  
**Ultra-Filtered PLUS**  
**50 µg Dose (250 IU\*)**  
 \*International Units  
**Rx Only**  
**Thimerosal-Free**  
**Latex-Free Delivery System**

Name \_\_\_\_\_  
 Room No. \_\_\_\_\_

**See Directions for Use**



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TEAR HERE ↑

**TAMPER RESISTANT:  
 POUCH SEALED  
 FOR SAFETY**

**TO USE: Screw plunger into  
 stopper in syringe barrel.**

**The patient and physician  
 should discuss the risks and  
 benefits of this product.**

### PRINCIPAL DISPLAY PANEL - 50 µg Syringe Pouch Label (Rework)

TEAR HERE

Rh<sub>0</sub>(D) Immune Globulin (Human)

MICRhoGAM<sup>®</sup>  
Ultra-Filtered PLUS  
50 µg Dose (1500 IU\*)  
\*International Units

Rx Only

Thimerosal-Free

Latex-Free Delivery System

Name \_\_\_\_\_  
Room No. \_\_\_\_\_

See Directions for Use

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**BIOPHARMA**

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TEAR HERE

TAMPER RESISTANT:  
POUCH SEALED  
FOR SAFETY

TO USE: Screw plunger into  
stopper in syringe barrel.

The patient and physician  
should discuss the risks and  
benefits of this product.

↑ TEAR HERE

**Rh<sub>0</sub>(D) Immune Globulin (Human)**  
**MICRhoGAM<sup>®</sup>**  
**Ultra-Filtered PLUS**  
**50 µg Dose (250 IU\*)**  
\*International Units  
**Rx Only**  
**Thimerosal-Free**  
**Latex-Free Delivery System**

Name \_\_\_\_\_  
Room No. \_\_\_\_\_

See Directions for Use

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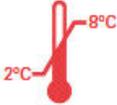
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NDC 0562-7806-00



TEAR HERE ↑

TAMPER RESISTANT:  
POUCH SEALED  
FOR SAFETY

TO USE: Screw plunger into  
stopper in syringe barrel.

The patient and physician  
should discuss the risks and  
benefits of this product.

## PRINCIPAL DISPLAY PANEL - 50 µg Syringe Pouch Carton - 01

Rh<sub>0</sub>(D) Immune Globulin (Human)  
MICRhoGAM<sup>®</sup>  
Ultra-Filtered PLUS – 50 µg Dose (250 IU\*)  
Thimerosal-Free  
\*International Units

Do not store frozen

See Directions for Use

Package Contains:

- 1 prefilled syringe containing a single dose of MICRhoGAM
- 1 control form
- 1 package insert
- 1 patient identification card

Active ingredient:

Anti-D Rho Immune Globulin (50 µg), the potency of which is determined relative to the US/WHO/EP Standard Anti-D Immunoglobulin Rho(D) Immune Globulin (Human) CBER Lot 4: NIBSC Lot 01/572 (285 IU/ampoule)

Inactive ingredients:

2.9 mg/mL sodium chloride

0.01% polysorbate 80

15 mg/mL glycine

Rho(D) Immune Globulin (Human)

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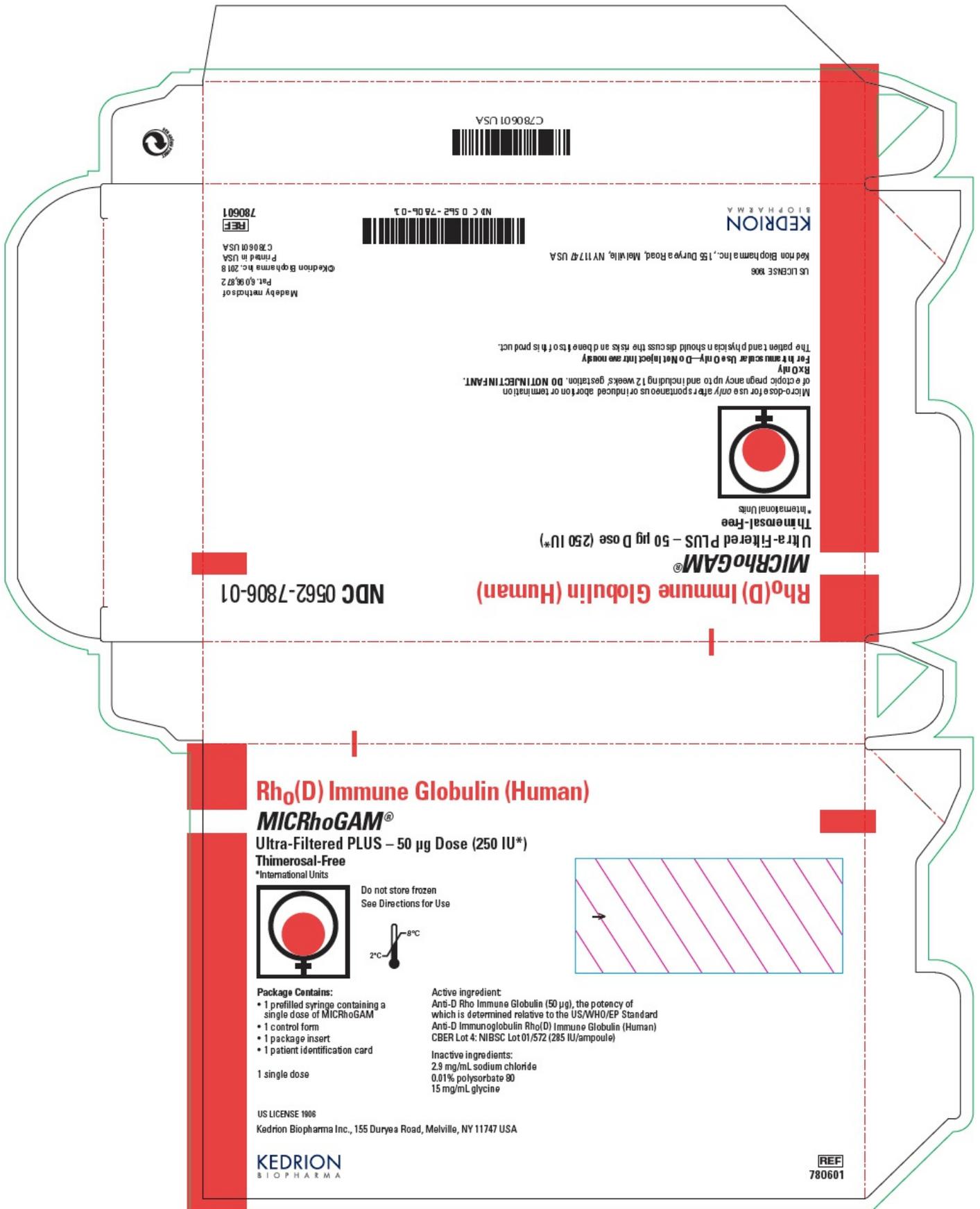
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BIOPHARMA

REF

780601



**PRINCIPAL DISPLAY PANEL - 50 µg Syringe Pouch Carton - 05**

Rh<sub>0</sub>(D) Immune Globulin (Human)

MICRhoGAM®

Ultra-Filtered PLUS - 50 µg Dose (250 IU\*)

Thimerosal-Free

\*International Units

Micro-dose for use only after spontaneous or induced abortion or termination of ectopic pregnancy up to and including 12 weeks' gestation. DO NOT INJECT INFANT.

Rx Only

For Intramuscular Use Only—Do Not Inject Intravenously

REF

780605

**Rh<sub>0</sub>(D) Immune Globulin (Human)**

**MICRhoGAM<sup>®</sup>**

Ultra-Filtered PLUS – 50 µg Dose (250 IU\*)

Thimerosal-Free

\*International Units



Micro-dose for use *only* after spontaneous or induced abortion or termination of ectopic pregnancy up to and including 12 weeks' gestation. **DO NOT INJECT INFANT.**

Rx Only

For Intramuscular Use Only—Do Not Inject Intravenously

The patient and physician should discuss the risks and benefits of this product.

REF  
780605

**Rh<sub>0</sub>(D) Immune Globulin (Human)**

**MICRhoGAM<sup>®</sup>**

Ultra-Filtered PLUS – 50 µg Dose (250 IU\*)

Thimerosal-Free

\*International Units



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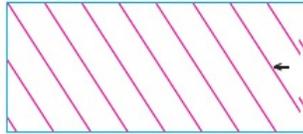
KEDRION  
BIO PHARMA

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- 5 pre-filled syringes each containing a single dose of MICRhoGAM
- 5 control forms
- 5 carton forms
- 5 package inserts
- 5 patient identification cards

Active ingredient: Ant: D Rh<sub>0</sub> Immune Globulin (50 µg), the potency of which is determined relative to the U.S./WHO/EP Standard Ant: D Immunglobulin Rh<sub>0</sub>(D) Immune Globulin (Human) CB ER Lot & N.B.S.C. Lot (0.1/5.2 (250 IU/ampoule))  
 in active ingredient: 29 mg/mL sodium chloride 0.1% polysorbate 80 15 mg/mL glycine



Thimerosal-Free  
Ultra-Filtered PLUS – 50 µg Dose (250 IU\*)

**Rh<sub>0</sub>(D) Immune Globulin (Human)**

NDC 0562-7806-05

**Rh<sub>0</sub>(D) Immune Globulin (Human)**

**MICRhoGAM<sup>®</sup>**

Ultra-Filtered PLUS – 50 µg Dose (250 IU\*)

Thimerosal-Free

\*International Units

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C780605USA

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780605

**Rh<sub>0</sub>(D) Immune Globulin (Human)**

**MICRhoGAM<sup>®</sup>**

Ultra-Filtered PLUS – 50 µg Dose (250 IU\*)

Thimerosal-Free

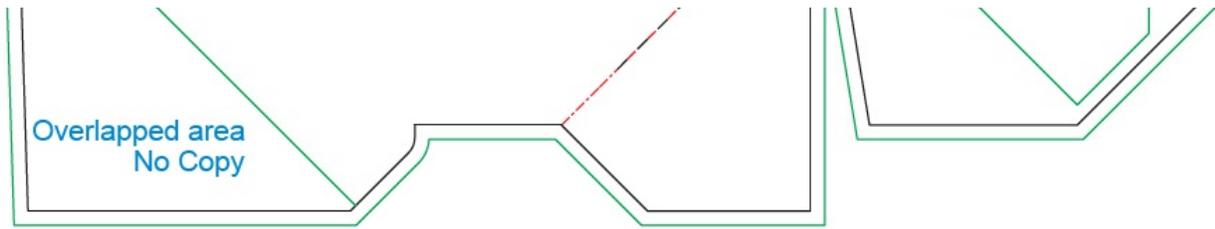
\*International Units



Do not store frozen  
See Directions for Use



REF  
780605



## **PRINCIPAL DISPLAY PANEL - 50 µg Syringe Pouch Carton - 25**

Rh<sub>0</sub>(D) Immune Globulin (Human)

MICRhoGAM<sup>®</sup>

Ultra-Filtered PLUS - 50 µg Dose (1500 IU\*)

Thimerosal-Free

\*International Units

Micro-dose for use only after spontaneous or induced abortion or termination of ectopic pregnancy up to and including 12 weeks' gestation. DO NOT INJECT INFANT.

Rx Only

For Intramuscular Use Only—Do Not Inject Intravenously

The patient and physician should discuss the risks and benefits of this product.

REF

780625

# Rh<sub>0</sub>(D) Immune Globulin (Human)

## MICRhoGAM<sup>®</sup>

### Ultra-Filtered PLUS – 50 µg Dose (250 IU\*)

#### Thimerosal-Free

\*International Units



Micro-dose for use *only* after spontaneous or induced abortion or termination of ectopic pregnancy up to and including 12 weeks' gestation. **DO NOT INJECT INFANT.**

**Rx Only**

**For Intramuscular Use Only—Do Not Inject Intravenously**

The patient and physician should discuss the risks and benefits of this product.

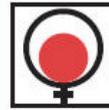
# Rh<sub>0</sub>(D) Immune Globulin (Human)

## MICRhoGAM<sup>®</sup>

### Ultra-Filtered PLUS – 50 µg Dose (250 IU\*)

#### Thimerosal-Free

\*International Units



Do not store frozen  
See Directions for Use



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KEDRION  
L I O N I A S

Kedron Biopharm, 155 Dunne Road, Marlborough, MA 01752 USA

15 mg/mL gly cine

25 mg/mL sodium chloride

0.01% poly sorbate 80

Inactive ingredients

• 25 patient identification cards

• 25 package inserts

• 25 control forms

• 25 prefill syringes each containing a single dose of MICRhoGAM

Active ingredient: Anti-D Rh<sub>0</sub>(D) Immune Globulin (50 µg), the potency of which is determined relative to the US MHQEP Standard C 887 Lot 4, MIBSC Lot 10/1572 (28514 ampoule)



\*International Units

Thimerosal-Free

Ultra-Filtered PLUS – 50 µg Dose (250 IU\*)

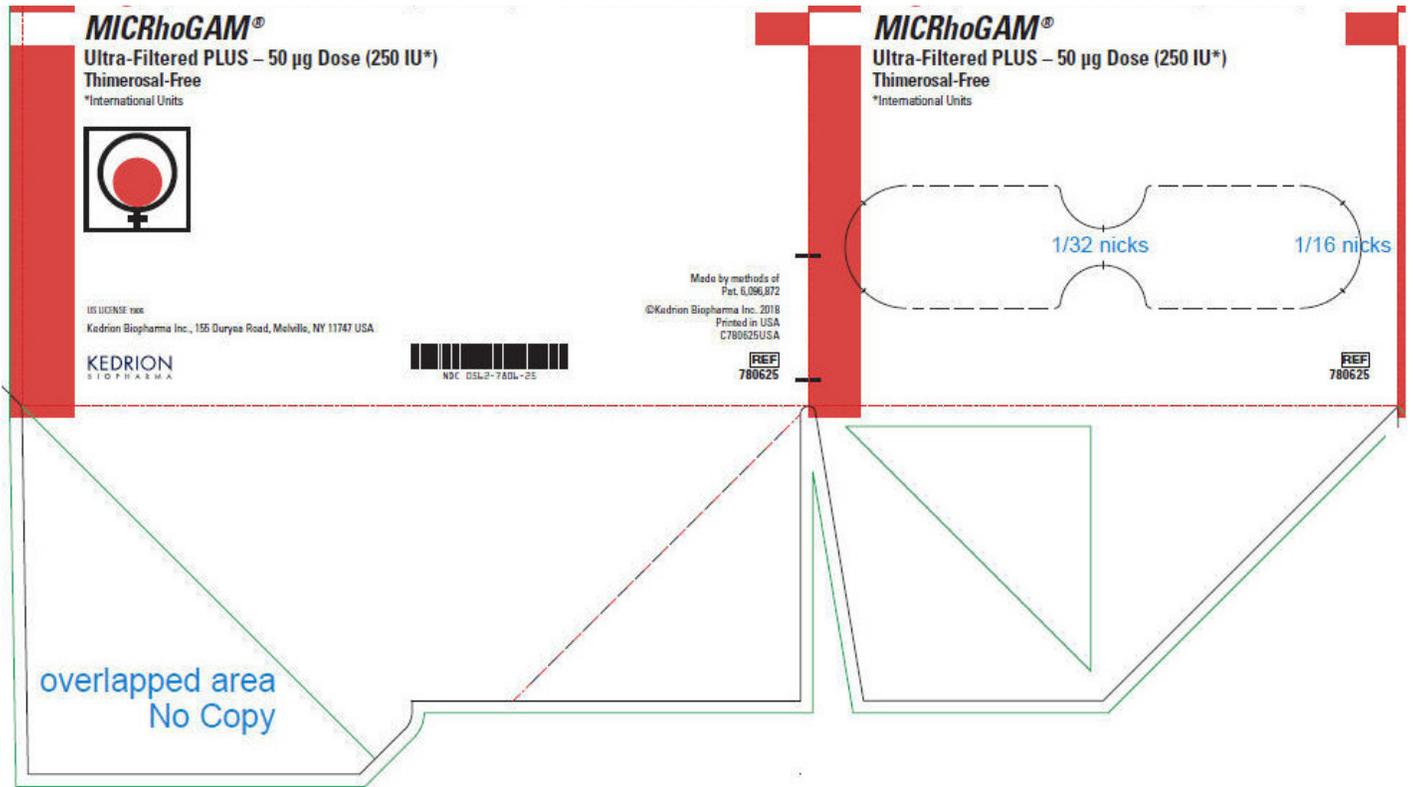
## MICRhoGAM<sup>®</sup>

# Rh<sub>0</sub>(D) Immune Globulin (Human)

Rh<sub>0</sub>(D) Immune Globulin (Human)

NDC 0562-7806-25

Rh<sub>0</sub>(D) Immune Globulin (Human)



## RHO GAM ULTRA-FILTERED PLUS

human rho(d) immune globulin injection, solution

### Product Information

<b>Product Type</b>	PLASMA DERIVATIVE	<b>Item Code (Source)</b>	NDC:0562-7805
<b>Route of Administration</b>	INTRAMUSCULAR		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>HUMAN RHO(D) IMMUNE GLOBULIN</b> (UNII: 48W7181FLP) (HUMAN RHO(D) IMMUNE GLOBULIN - UNII:48W7181FLP)	HUMAN RHO(D) IMMUNE GLOBULIN	300 ug

### Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM CHLORIDE</b> (UNII: 451W471Q8X)	
<b>GLYCINE</b> (UNII: TE7660XO1C)	
<b>POLYSORBATE 80</b> (UNII: 6OZP39ZG8H)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0562-7805-01	1 in 1 CARTON		

1	NDC:0562-7805-00	1 in 1 POUCH; Type 0: Not a Combination Product		
2	NDC:0562-7805-05	5 in 1 CARTON		
2	NDC:0562-7805-00	1 in 1 POUCH; Type 0: Not a Combination Product		
3	NDC:0562-7805-25	25 in 1 CARTON		
3	NDC:0562-7805-00	1 in 1 POUCH; Type 0: Not a Combination Product		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103777	03/09/2007	

## MICRHOGAM ULTRA-FILTERED PLUS

human rho(d) immune globulin injection, solution

### Product Information

<b>Product Type</b>	PLASMA DERIVATIVE	<b>Item Code (Source)</b>	NDC:0562-7806
<b>Route of Administration</b>	INTRAMUSCULAR		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>HUMAN RHO(D) IMMUNE GLOBULIN</b> (UNII: 48W7181FLP) (HUMAN RHO(D) IMMUNE GLOBULIN - UNII:48W7181FLP)	HUMAN RHO(D) IMMUNE GLOBULIN	50 ug

### Inactive Ingredients

Ingredient Name	Strength
<b>SODIUM CHLORIDE</b> (UNII: 451W471Q8X)	
<b>GLYCINE</b> (UNII: TE7660XO1C)	
<b>POLYSORBATE 80</b> (UNII: 6OZP39ZG8H)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0562-7806-01	1 in 1 CARTON		
1	NDC:0562-7806-00	1 in 1 POUCH; Type 0: Not a Combination Product		
2	NDC:0562-7806-05	5 in 1 CARTON		
2	NDC:0562-7806-00	1 in 1 POUCH; Type 0: Not a Combination Product		

3	NDC:0562-7806-25	25 in 1 CARTON		
3	NDC:0562-7806-00	1 in 1 POUCH; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103777	03/09/2007	

**Labeler** - Kedrion Biopharma Inc (080452111)

### Establishment

Name	Address	ID/FEI	Business Operations
Ortho Clinical Diagnostics		068715424	MANUFACTURE(0562-7805, 0562-7806)

### Establishment

Name	Address	ID/FEI	Business Operations
Kedrion Biopharma Inc.		080452111	MANUFACTURE(0562-7805, 0562-7806)

Revised: 10/2023

Kedrion Biopharma Inc