

**ROWASA- mesalamine suspension**  
**Meda Pharmaceuticals Inc.**

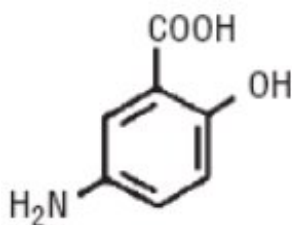
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**ROWASA®**  
**(mesalamine)**  
**Rectal Suspension Enema**  
**4.0 grams/unit (60 mL)**  
**Rx only**

**DESCRIPTION**

The active ingredient in ROWASA® (mesalamine) Rectal Suspension Enema, a disposable (60 mL) unit, is mesalamine, also known as 5-aminosalicylic acid (5-ASA). Chemically, mesalamine is 5-amino-2-hydroxybenzoic acid.

The empirical formula is  $C_7H_7NO_3$ , representing a molecular weight of 153.14. The structural formula is:



Each rectal suspension enema unit contains 4 grams of mesalamine. In addition to mesalamine the preparation contains the inactive ingredients carbomer 934P, edetate disodium, potassium acetate, potassium metabisulfite, purified water and xanthan gum. Sodium benzoate is added as a preservative. The disposable unit consists of an applicator tip protected by a polyethylene cover and lubricated with USP white petrolatum. The unit has a one-way valve to prevent back flow of the dispensed product.

**CLINICAL PHARMACOLOGY**

Each ROWASA® (mesalamine) Rectal Suspension Enema delivers up to 4 g of mesalamine to the left side of the colon.

The mechanism of action of mesalamine (and sulfasalazine) is not fully understood, but appears to be a topical anti-inflammatory effect on colonic epithelial cells. Mucosal production of arachidonic acid (AA) metabolites, both through the cyclooxygenase pathways, i.e., prostanoids, and through the lipoxygenase pathways, i.e., leukotrienes (LTs) and hydroxyeicosatetraenoic acids (HETEs) is increased in patients with ulcerative colitis, and it is possible that mesalamine diminishes inflammation by blocking cyclooxygenase and inhibiting prostaglandin (PG) production in the colon.

## Preclinical Toxicology

Preclinical studies have shown the kidney to be the major target organ for mesalamine toxicity. Adverse renal function changes were observed in rats after a single 600 mg/kg oral dose, but not after a 200 mg/kg dose. Gross kidney lesions, including papillary necrosis, were observed after a single oral >900 mg/kg dose, and after I.V. doses of >214 mg/kg. Mice responded similarly. In a 13-week oral (gavage) dose study in rats, the high dose of 640 mg/kg/day mesalamine caused deaths, probably due to renal failure, and dose-related renal lesions (papillary necrosis and/or multifocal tubular injury) were seen in most rats given the high dose (males and females) as well as in males receiving lower doses 160 mg/kg/day. Renal lesions were not observed in the 160 mg/kg/day female rats. Minimal tubular epithelial damage was seen in the 40 mg/kg/day males and was reversible. In a six-month oral study in dogs, the no-observable dose level of mesalamine was 40 mg/kg/day and doses of 80 mg/kg/day and higher caused renal pathology similar to that described for the rat. In a combined 52-week toxicity and 127-week carcinogenicity study in rats, degeneration in kidneys was observed at doses of 100 mg/kg/day and above admixed with diet for 52 weeks, and at 127 weeks increased incidence of kidney degeneration and hyalinization of basement membranes and Bowman's capsule were seen at 100 mg/kg/day and above. In the 12-month eye toxicity study in dogs, Keratoconjunctivitis Sicca (KCS) occurred at oral doses of 40 mg/kg/day and above. The oral preclinical studies were done with a highly bioavailable suspension where absorption throughout the gastrointestinal tract occurred. The human dose of 4 grams represents approximately 80 mg/kg but when mesalamine is given rectally as a suspension, absorption is poor and limited to the distal colon (see **Pharmacokinetics**). Overt renal toxicity has not been observed (see **ADVERSE REACTIONS** and **PRECAUTIONS**), but the potential must be considered.

## Pharmacokinetics

Mesalamine administered rectally as ROWASA® (mesalamine) Rectal Suspension Enema is poorly absorbed from the colon and is excreted principally in the feces during subsequent bowel movements. The extent of absorption is dependent upon the retention time of the drug product, and there is considerable individual variation. At steady state, approximately 10 to 30% of the daily 4-gram dose can be recovered in cumulative 24-hour urine collections. Other than the kidney, the organ distribution and other bioavailability characteristics of absorbed mesalamine in man are not known. It is known that the compound undergoes acetylation but whether this process takes place at colonic or systemic sites has not been elucidated.

Whatever the metabolic site, most of the absorbed mesalamine is excreted in the urine as the N-acetyl-5-ASA metabolite. The poor colonic absorption of rectally administered mesalamine is substantiated by the low serum concentration of 5-ASA and N-acetyl-5-ASA seen in ulcerative colitis patients after dosage with mesalamine. Under clinical conditions patients demonstrated plasma levels 10 to 12 hours post mesalamine administration of 2 µg/mL, about two-thirds of which was the N-acetyl metabolite. While the elimination half-life of mesalamine is short (0.5 to 1.5 h), the acetylated metabolite exhibits a half-life of 5 to 10 hours [U. Klotz, **Clin. Pharmacokin.** 10:285-302 (1985)]. In addition, steady state plasma levels demonstrated a lack of accumulation of either free or metabolized drug during repeated daily administrations.

## Efficacy

In a placebo-controlled, international, multicenter trial of 153 patients with active distal ulcerative colitis, proctosigmoiditis or proctitis, ROWASA® (mesalamine) Rectal Suspension Enema reduced the overall disease activity index (DAI) and individual components as follows:

**EFFECT OF TREATMENT ON SEVERITY OF DISEASE DATA FROM U.S.-CANADA TRIAL  
COMBINED RESULTS OF EIGHT CENTERS  
Activity Indices, mean**

		<b>N</b>	<b>Baseline</b>	<b>Day 22</b>	<b>End Point</b>	<b>Change Baseline to End Point *</b>
<b>Overall DAI</b>	ROWASA®	76	7.42	4.05 <sup>†</sup>	3.37 <sup>‡</sup>	-55.07% <sup>‡</sup>
	Placebo	77	7.40	6.03	5.83	-21.58%
<b>Stool Frequency</b>	ROWASA®		1.58	1.11 <sup>§</sup>	1.01 <sup>†</sup>	-0.57 <sup>§</sup>
	Placebo		1.92	1.47	1.50	-0.41
<b>Rectal Bleeding</b>	ROWASA®		1.82	0.59 <sup>‡</sup>	0.51 <sup>‡</sup>	-1.30 <sup>‡</sup>
	Placebo		1.73	1.21	1.11	-0.61
<b>Mucosal Inflammation</b>	ROWASA®		2.17	1.22 <sup>†</sup>	0.96 <sup>‡</sup>	-1.21 <sup>†</sup>
	Placebo		2.18	1.74	1.61	-0.56
<b>Physician's Assessment of Disease Severity</b>	ROWASA®		1.86	1.13 <sup>‡</sup>	0.88 <sup>‡</sup>	-0.97 <sup>‡</sup>
	Placebo		1.87	1.62	1.55	-0.30

Each parameter has a 4-point scale with a numerical rating:

0 = normal, 1 = mild, 2 = moderate, 3 = severe. The four parameters are added together to produce a maximum overall DAI of 12.

\* Percent change for overall DAI only (calculated by taking the average of the change for each individual patient).

<sup>†</sup>Significant ROWASA®/placebo difference.  $p < 0.01$

<sup>‡</sup>Significant ROWASA®/placebo difference.  $p < 0.001$

<sup>§</sup>Significant ROWASA®/placebo difference.  $p < 0.05$

Differences between ROWASA® (mesalamine) Rectal Suspension Enema and placebo were also statistically different in subgroups of patients on concurrent sulfasalazine and in those having an upper disease boundary between 5 and 20 or 20 and 40 cm. Significant differences between ROWASA® (mesalamine) Rectal Suspension Enema and placebo were not achieved in those subgroups of patients on concurrent prednisone or with an upper disease boundary between 40 and 50 cm.

## INDICATIONS AND USAGE

ROWASA® (mesalamine) Rectal Suspension Enema is indicated for the treatment of active mild to moderate distal ulcerative colitis, proctosigmoiditis or proctitis in adults.

## **CONTRAINDICATIONS**

ROWASA<sup>®</sup> (mesalamine) Rectal Suspension Enema is contraindicated in patients with known or suspected hypersensitivity to salicylates, aminosaliclates, sulfites or any other component of this medication.

## **WARNINGS**

### **Hypersensitivity Reactions**

#### **Sulfite-Related Reactions**

ROWASA<sup>®</sup> (mesalamine) Rectal Suspension Enema contains potassium metabisulfite, a sulfite that may cause allergic-type reactions including anaphylactic symptoms and life-threatening or less severe asthmatic episodes in certain susceptible people. The overall prevalence of sulfite sensitivity in the general population is unknown but probably low. Sulfite sensitivity is seen more frequently in asthmatic or in atopic nonasthmatic persons.

Epinephrine is the preferred treatment for serious allergic or emergency situations even though epinephrine injection contains sodium or potassium metabisulfite with the above-mentioned potential liabilities. The alternatives to using epinephrine in a life-threatening situation may not be satisfactory. The presence of a sulfite(s) in epinephrine injection should not deter the administration of the drug for treatment of serious allergic or other emergency situations.

#### **Sulfasalazine-Associated Reactions**

Hypersensitivity reactions have been reported in patients taking sulfasalazine. Some patients may have a similar reaction to ROWASA or to other compounds that contain or are converted to mesalamine.

As with sulfasalazine, mesalamine-induced hypersensitivity reactions may present as internal organ involvement, including myocarditis, pericarditis, nephritis, hepatitis, pneumonitis and hematologic abnormalities. Evaluate patients immediately if signs or symptoms of a hypersensitivity reaction are present. Discontinue ROWASA if an alternative etiology for the signs and symptoms cannot be established.

### **Renal Impairment**

Renal impairment, including minimal change disease, acute and chronic interstitial nephritis, and renal failure have been reported in patients given products that contain mesalamine or are converted to mesalamine. In animal studies, the kidney was the principal organ of mesalamine toxicity.

Evaluate the risks and benefits of using ROWASA in patients with known renal impairment or a history of renal disease or taking concomitant nephrotoxic drugs. Mesalamine is known to be substantially excreted by the kidney, and the risk of adverse reactions may be greater in patients with impaired renal function. Evaluate renal function in all patients prior to initiation and periodically while on ROWASA therapy. Discontinue ROWASA if renal function deteriorates while on therapy.

## **Mesalamine-Induced Acute Intolerance Syndrome**

Mesalamine has been associated with an acute intolerance syndrome that may be difficult to distinguish from a flare of inflammatory bowel disease. Although the exact frequency of occurrence cannot be ascertained, it has occurred in 3% of patients in controlled clinical trials of mesalamine or sulfasalazine. Symptoms include cramping, acute abdominal pain and bloody diarrhea, sometimes fever, headache, and rash. Monitor patients for worsening of these symptoms while on treatment. If acute intolerance syndrome is suspected, promptly discontinue treatment with ROWASA.

## **PRECAUTIONS**

### **Hepatic Failure**

There have been reports of hepatic failure in patients with pre-existing liver disease who have been administered other products containing mesalamine. Evaluate the risks and benefits of using ROWASA in patients with known liver impairment.

### **Severe Cutaneous Adverse Reactions**

Severe cutaneous adverse reactions, including Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), drug reaction with eosinophilia and systemic symptoms (DRESS), and acute generalized exanthematous pustulosis (AGEP) have been reported with the use of mesalamine (see **ADVERSE REACTIONS**). Discontinue ROWASA at the first signs or symptoms of severe cutaneous adverse reactions or other signs of hypersensitivity and consider further evaluation.

### **Photosensitivity**

Patients with pre-existing skin conditions such as atopic dermatitis and atopic eczema have reported more severe photosensitivity reactions. Advise patients to avoid sun exposure, wear protective clothing, and use a broad-spectrum sunscreen when outdoors.

### **Nephrolithiasis**

Cases of nephrolithiasis have been reported with the use of mesalamine, including stones with 100% mesalamine content. Mesalamine-containing stones are radiotransparent and undetectable by standard radiography or computed tomography (CT). Ensure adequate hydration during treatment.

## **Information for Patients**

### **Urine Discoloration**

Advise patients that urine may become discolored reddish-brown while taking ROWASA when it comes in contact with surfaces or water treated with hypochlorite-containing bleach. If discolored urine is observed, advise patients to observe their urine flow. Report to the healthcare provider only if urine is discolored on leaving the body, before contact with any surface or water (e.g., in the toilet).

### **Interference with Laboratory Tests**

Use of mesalamine may lead to spuriously elevated test results when measuring urinary normetanephrine by liquid chromatography with electrochemical detection because of the similarity in the chromatograms of normetanephrine and mesalamine's main metabolite, N-acetyl-5-aminosalicylic acid (N-Ac-5-ASA). Consider an alternative, selective assay for normetanephrine.

## **Drug Interactions**

### **Nephrotoxic Agents, Including Non-Steroidal Anti-Inflammatory Drugs**

The concurrent use of mesalamine with known nephrotoxic agents, including non-steroidal anti-inflammatory drugs (NSAIDs), may increase the risk of nephrotoxicity. Monitor patients taking nephrotoxic drugs for changes in renal function and mesalamine-related adverse reactions.

### **Azathioprine or 6-Mercaptopurine**

The concurrent use of mesalamine with azathioprine or 6-mercaptopurine and/or any other drugs known to cause myelotoxicity may increase the risk for blood disorders, bone marrow failure, and associated complications. If concomitant use of ROWASA and azathioprine or 6-mercaptopurine cannot be avoided, monitor blood tests, including complete blood cell counts and platelet counts.

## **Carcinogenesis, Mutagenesis, Impairment of Fertility**

Mesalamine caused no increase in the incidence of neoplastic lesions over controls in a 2-year study of Wistar rats fed up to 320 mg/kg/day of mesalamine admixed with diet. Mesalamine is not mutagenic to *Salmonella typhimurium* tester strains TA98, TA100, TA1535, TA1537, TA1538. There were no reverse mutations in an assay using *E. coli* strain WP2UVRA. There were no effects in an *in vivo* mouse micronucleus assay at 600 mg/kg and in an *in vivo* sister chromatid exchange at doses up to 610 mg/kg. No effects on fertility were observed in rats receiving up to 320 mg/kg/day. The oligospermia and infertility in men associated with sulfasalazine has very rarely been reported among patients treated with mesalamine.

## **Pregnancy**

Teratologic studies have been performed in rats and rabbits at oral doses up to five and eight times respectively, the maximum recommended human dose, and have revealed no evidence of harm to the embryo or the fetus. There are, however, no adequate and well-controlled studies in pregnant women for either sulfasalazine or 5-ASA. Because animal reproduction studies are not always predictive of human response, 5-ASA should be used during pregnancy only if clearly needed.

## **Nursing Mothers**

It is not known whether mesalamine or its metabolite(s) are excreted in human milk. As a general rule, nursing should not be undertaken while a patient is on a drug since many drugs are excreted in human milk.

## **Pediatric Use**

Safety and effectiveness in pediatric patients have not been established.

## Geriatric Use

Clinical trials of ROWASA did not include sufficient numbers of patients aged 65 years and over to determine whether they respond differently from younger patients. Reports from uncontrolled clinical studies and postmarketing reporting systems suggested a higher incidence of blood dyscrasias (i.e., agranulocytosis, neutropenia and pancytopenia) in patients receiving mesalamine-containing products such as ROWASA who were 65 years or older compared to younger patients, which may also be associated with ulcerative colitis, use of interacting drugs, or reduced renal function.

Consider monitoring complete blood cell counts and platelet counts in elderly patients during treatment with ROWASA, especially if used concomitantly with anticoagulants. In general, consider the greater frequency of decreased hepatic, renal, or cardiac function, and of concurrent disease or other drug therapy in elderly patients when prescribing ROWASA.

**To report SUSPECTED ADVERSE REACTIONS, contact Meda Pharmaceuticals Inc. at 1-866-210-5949 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

## ADVERSE REACTIONS

### Clinical Adverse Experience

ROWASA® (mesalamine) Rectal Suspension Enema is usually well tolerated. Most adverse effects have been mild and transient.

#### **ADVERSE REACTIONS OCCURRING IN MORE THAN 0.1% OF ROWASA® (MESALAMINE) RECTAL SUSPENSION ENEMA TREATED PATIENTS (COMPARISON TO PLACEBO)**

SYMPTOM	ROWASA® N = 815		PLACEBO N = 128	
	N	%	N	%
Abdominal Pain/Cramps/Discomfort	66	8.10	10	7.81
Headache	53	6.50	16	12.50
Gas/Flatulence	50	6.13	5	3.91
Nausea	47	5.77	12	9.38
Flu	43	5.28	1	0.78
Tired/Weak/Malaise/Fatigue	28	3.44	8	6.25
Fever	26	3.19	0	0.00
Rash/Spots	23	2.82	4	3.12
Cold/Sore Throat	19	2.33	9	7.03
Diarrhea	17	2.09	5	3.91
Leg/Joint Pain	17	2.09	1	0.78
Dizziness	15	1.84	3	2.34
Bloating	12	1.47	2	1.56

Back Pain	11	1.35	1	0.78
Pain on Insertion of Enema Tip	11	1.35	1	0.78
Hemorrhoids	11	1.35	0	0.00
Itching	10	1.23	1	0.78
Rectal Pain	10	1.23	0	0.00
Constipation	8	0.98	4	3.12
Hair Loss	7	0.86	0	0.00
Peripheral Edema	5	0.61	11	8.59
UTI/Urinary Burning	5	0.61	4	3.12
Rectal Pain/Soreness/Burning	5	0.61	3	2.34
Asthenia	1	0.12	4	3.12
Insomnia	1	0.12	3	2.34

In addition, the following adverse events have been identified during post-approval use of products which contain (or are metabolized to) mesalamine in clinical practice: nephrotoxicity, pancreatitis, fibrosing alveolitis, elevated liver enzymes, nephrogenic diabetes insipidus, intracranial hypertension and nephrolithiasis. Cases of pancreatitis and fibrosing alveolitis have been reported as manifestations of inflammatory bowel disease as well.

Published case reports and/or spontaneous post marketing surveillance have described rare instances of aplastic anemia, agranulocytosis, thrombocytopenia, eosinophilia, pancytopenia, neutropenia, oligospermia, and infertility in men. Anemia, leukocytosis, and thrombocytosis can be part of the clinical presentation of inflammatory bowel disease.

Postmarketing cases of severe cutaneous adverse reactions (SJS/TEN, DRESS, and AGEP) and pleurisy/pleuritis have been reported.

### **Hair Loss**

Mild hair loss characterized by “more hair in the comb” but no withdrawal from clinical trials has been observed in 7 of 815 mesalamine patients but none of the placebo-treated patients. In the literature there are at least six additional patients with mild hair loss who received either mesalamine or sulfasalazine. Retreatment is not always associated with repeated hair loss.

### **Postmarketing Experience**

The following adverse reactions have been identified during post-approval use of mesalamine. Because these reactions 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 drug exposure.

#### *Renal Disorders*

- Urine discoloration occurring *ex-vivo* caused by contact of mesalamine including inactive metabolite, with surfaces or water treated with hypochlorite-containing bleach (see **PRECAUTIONS: Information for Patients**).



## OVERDOSAGE

Mesalamine absorption from the colon is limited; however, ROWASA is an aminosalicylate, and symptoms of salicylate toxicity include nausea, vomiting and abdominal pain, tachypnea, hyperpnea, tinnitus, and neurologic symptoms (headache, dizziness, confusion, seizures). Severe salicylate intoxication may lead to electrolyte and blood pH imbalance and potentially to other organ (e.g., renal and liver) involvement. There is no specific antidote for mesalamine overdose. Correct fluid and electrolyte imbalance by the administration of appropriate intravenous therapy and maintain adequate renal function.

## DOSAGE AND ADMINISTRATION

The recommended adult dosage of ROWASA<sup>®</sup> (mesalamine) Rectal Suspension Enema in 60 mL units is one rectal instillation (4 grams) once a day, preferably at bedtime, and retained for approximately eight hours. While the effect of ROWASA<sup>®</sup> (mesalamine) Rectal Suspension Enema may be seen within 3 to 21 days, the usual course of therapy would be from 3 to 6 weeks depending on symptoms and sigmoidoscopic findings. Studies available to date have not assessed if ROWASA<sup>®</sup> (mesalamine) Rectal Suspension Enema will modify relapse rates after the 6-week short-term treatment. ROWASA<sup>®</sup> (mesalamine) Rectal Suspension Enema is for rectal use only.

Drink an adequate amount of fluids during treatment.

Patients should be instructed to shake the bottle well to make sure the suspension is homogeneous. The patient should remove the protective sheath from the applicator tip. Holding the bottle at the neck will not cause any of the medication to be discharged. The position most often used is obtained by lying on the left side (to facilitate migration into the sigmoid colon); with the lower leg extended and the upper right leg flexed forward for balance. An alternative is the knee-chest position. The applicator tip should be gently inserted in the rectum pointing toward the umbilicus. A steady squeezing of the bottle will discharge most of the preparation. The preparation should be taken at bedtime with the objective of retaining it all night. Patient instructions are included with every seven units.

## HOW SUPPLIED

ROWASA<sup>®</sup> (mesalamine) Rectal Suspension Enema for rectal administration is an off-white to tan colored suspension. Each disposable enema bottle contains 4.0 grams of mesalamine in 60 mL aqueous suspension. Enema bottles are supplied in boxed, foil-wrapped trays as follows:

NDC 0037-0066-01.....	Professional Sample
NDC 0037-0066-05.....	Carton of 7 Bottles
NDC 0037-0066-14.....	Carton of 14 Bottles
NDC 0037-0066-03.....	Carton of 28 Bottles

ROWASA<sup>®</sup> (mesalamine) Rectal Suspension Enemas are for rectal use only.

**KEEP OUT OF REACH OF CHILDREN**

Patient instructions are included.

## Storage

Store at controlled room temperature 20° to 25°C (68° to 77°F); excursions permitted, please refer to current USP. Once the foil wrapped unit of seven bottles is opened, all enemas should be used promptly as directed by your physician. **Contents of enemas removed from the foil pouch may darken with time. Slight darkening will not affect potency, however, enemas with dark brown contents should be discarded.**

**NOTE: ROWASA® (mesalamine) Rectal Suspension Enema will cause staining of direct contact surfaces, including but not limited to fabrics, flooring, painted surfaces, marble, granite, vinyl, and enamel. Take care in choosing a suitable location for administration of this product.**

## PATIENT INSTRUCTIONS

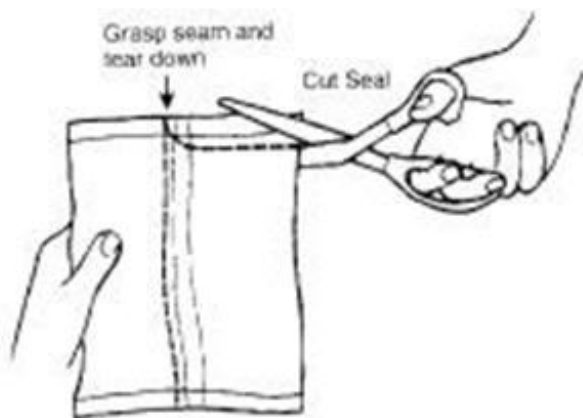
How to Use this Medication.

**Best results are achieved if the bowel is emptied immediately before the medication is given.**

**NOTE: ROWASA® (mesalamine) Rectal Suspension Enema will cause staining of direct contact surfaces, including but not limited to fabrics, flooring, painted surfaces, marble, granite, vinyl, and enamel. Take care in choosing a suitable location for administration of this product.**

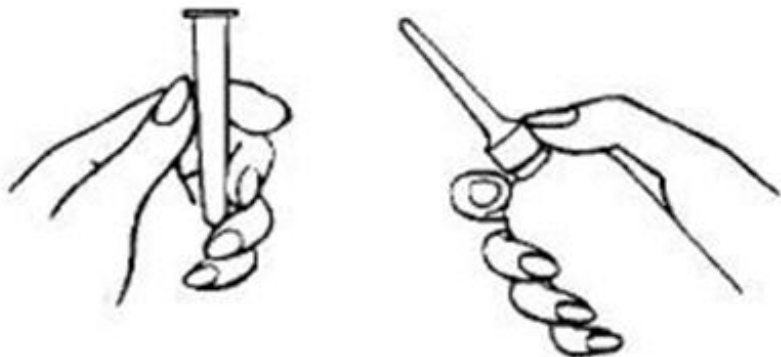
### 1. Remove the Bottles

- a. Remove the bottles from the protective foil pouch by tearing or by using scissors as shown, being careful not to squeeze or puncture bottles. ROWASA® (mesalamine) Rectal Suspension Enema is an off-white to tan colored suspension. Once the foil-wrapped unit of seven bottles is opened, all enemas should be used promptly as directed by your physician. **Contents of enemas removed from the foil pouch may darken with time. Slight darkening will not affect potency, however, enemas with dark brown contents should be discarded.**



## 2. **Prepare the Medication for Administration**

- Shake the bottle well to make sure that the medication is thoroughly mixed.
- Remove the protective sheath from the applicator tip. Hold the bottle at the neck so as not to cause any of the medication to be discharged.



## 3. **Assume the Correct Body Position**

- Best results are obtained by lying on the left side with the left leg extended and the right leg flexed forward for balance.



- An alternative to lying on the left side is the “knee-chest” position as shown here.



## 4. **Administer the Medication**

- Gently insert the lubricated applicator tip into the rectum to prevent damage to the rectal wall, pointed slightly toward the navel.
- Grasp the bottle firmly, then tilt slightly so that the nozzle is aimed toward the back,

squeeze slowly to instill the medication. Steady hand pressure will discharge most of the medication. After administering, withdraw and discard the bottle.



- c. Remain in position for at least 30 minutes to allow thorough distribution of the medication internally. Retain the medication all night, if possible.

**R<sub>x</sub> only**

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Distributed by:

**MEDA**

**PHARMACEUTICALS®**

Canonsburg, PA 15317 U.S.A.

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**For Medical Inquiries, Call Toll Free:**

**1-866-210-5949**

**PRINCIPAL DISPLAY PANEL - 60 mL bottle**

**NDC 0037-0066-05**

**7 X 60 mL Unit-Dose Bottles**

**7 pack**

**Rowasa®**

**(mesalamine)**

**Rectal Suspension Enema    KIT**

**4.0g/60mL**

**For Rectal Use Only**

Rx Only

**Kit includes**

**7 complimentary  
cleansing wipes.**

**Dispense in existing**

**packaging as one unit,  
do not repackage.**

**Each disposable unit contains:**

**Mesalamine** (5-aminosalicylic acid).....4.0 grams  
in suspension containing carbomer 934P, edetate disodium, potassium acetate,  
potassium metabisulfite, purified water, sodium benzoate, and xanthan gum.

**USUAL DOSE:** One unit-dose suspension in the evenings before going to bed.

See package insert for complete prescribing information including usual dose.

See enclosed directions for use.

Use as directed by your physician.

**KEEP THIS AND ANY MEDICATION OUT OF REACH OF CHILDREN.**

SHAKE WELL BEFORE USING.

**FOIL WRAP PROTECTS PRODUCT FROM DISCOLORATION. DO NOT REMOVE  
PRODUCT FROM FOIL WRAP UNTIL READY TO USE.**

Product contents may darken with time.

**NOTE: product contents will cause staining of most direct contact surfaces.**

Store at controlled room temperature 20° to 25°C (68° to 77°F); brief excursions  
permitted 15° to 30°C (59° to 86°F) [See USP].

Dispensed in original foil-wrapped package. Individual trays are not to be  
dispensed separately.

For medical inquiries, call toll-free 1-866-210-5949.

**SHAKE WELL BEFORE USING**

Distributed by:

**MEDA PHARMACEUTICALS®  
Canonsburg, PA 15317 U.S.A.**

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UC-003605-04

Rev. 10/2023

7 X 9 0 ml Unit-Dosage bottles  
NDC 0000-0000-0000

pack

UC3W

**Rowasa** (mesalamine)  
Rectal Suspension, Enema

UD3W

SHAKE WELL BEFORE USING

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අනුරාධපුරයේ සිටින බුදුන්ගේ භික්ෂු

The first step in the process is to identify the problem. This involves gathering information about the situation and the people involved. Once the problem is identified, the next step is to analyze it. This involves breaking the problem down into its components and understanding how they are related. The third step is to develop a plan. This involves deciding on the best way to solve the problem and the steps that need to be taken. The fourth step is to implement the plan. This involves putting the plan into action and making sure that it is followed. The final step is to evaluate the results. This involves checking to see if the problem has been solved and if the plan was effective.

For Redline Only  
RPO only

7 pack

NO. 0037-0064-05  
X-77 at United States

7 pack

NDC 0037-0044-05  
7 X 60 mL Unit-Dose Bottles

[illegible]

**Rowasa<sup>®</sup>** (mesalamine) **KIT**  
Rectal Suspension Enema

NDC 0037-026-05  
7 X 60 mL Unit-Dose Bottles

7 pack

For Rectal Use Only  
Rx Only

**ROWASA<sup>®</sup>** (mesalamine) **KIT**  
Rectal Suspension Enema 40/100

**Keep out of reach of children.**  
 Head and neck (5-aminosalicylic acid) . . . . . 4.0 grams  
 in suspension containing colistimethate sodium 4.0% dextrose, poloxamer 407, potassium metabisulfite, purified water, sodium benzoate, and xanthan gum.  
**INDICATIONS:** One unit-dose suspension in the evenings before going to bed.  
 See package insert for complete prescribing information including usual dose.  
 See enclosed directions for use.  
 Use as directed by your physician.  
**KEEP THIS AND ANY MEDICATION OUT OF REACH OF CHILDREN.**  
 SHAKE WELL BEFORE USING.  
**POWL WAF PROTECTS PRODUCT FROM DECOLORATION. DO NOT REMOVE PROTECT FROM POWL WAF UNTIL READY TO USE.**  
 Product contents may vary without notice.  
 NOTE: product contains a small amount of sodium diethylarsinate disodium arsenate.  
 Store at controlled room temperature 20° to 25°C (68° to 77°F); brief excursions permitted 15° to 30°C (59° to 86°F) [see USP].

**Kit includes  
7 complimentary  
cleansing wipes.  
Dispense in existing  
packaging as one unit,  
do not repackage.**

Dispensed in original foil-wrapped package. Individual trays are not to be dispensed separately.

For medical inquiries, call toll-free 1-866-210-5745

**SHAKE WELL BEFORE USING**

Distributed by:  
**MEDA**  
PHARMACEUTICAL  
Company, Niles, IL  
© 2023, Viatris Inc.

7 pack

DEC 03 11:00N 605  
X 60 mL. Unit-Dose Bottles

**Rowasa**<sup>®</sup>  
(mesalamine)  
Rectal Suspension Enema

Distributed by:  
**MECA**  
 10000 Wilshire Blvd., Suite 1000  
 Los Angeles, CA 90024  
 Tel: 310-206-1000  
 Fax: 310-206-1001  
 Email: [info@meca.com](mailto:info@meca.com)  
 Website: [www.meca.com](http://www.meca.com)

# ROWASA

## mesalamine suspension

## Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0037-0066
Route of Administration	RECTAL		

## Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
MESALAMINE (UNII: 4Q81I59GXC) (MESALAMINE - UNII:4Q81I59GXC)	MESALAMINE	4 g in 60 mL

## Inactive Ingredients

Ingredient Name	Strength
CARBOMER HOMOPOLYMER TYPE B (ALLYL PENTAERYTHRITOL CROSSLINKED) (UNII: HHT01ZNK31)	
EDETATE DISODIUM (UNII: 7FLD91C86K)	
POTASSIUM ACETATE (UNII: M911911U02)	
POTASSIUM METABISULFITE (UNII: 65OE787Q7W)	
WATER (UNII: 059QF0KO0R)	
SODIUM BENZOATE (UNII: OJ245FE5EU)	
XANTHAN GUM (UNII: TTV12P4NEE)	

## Product Characteristics

Color	WHITE	Score	
Shape		Size	
Flavor		Imprint Code	
Contains			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0037-0066-05	7 in 1 CARTON	03/24/2016	
1	NDC:0037-0066-06	60 mL in 1 BOTTLE, DISPENSING; Type 9: Other Type of Part 3 Combination Product (e.g., Drug/Device/Biological Product)		
2	NDC:0037-0066-03	28 in 1 CARTON	03/24/2016	
2	NDC:0037-0066-06	60 mL in 1 BOTTLE, DISPENSING; Type 9: Other Type of Part 3 Combination Product (e.g., Drug/Device/Biological Product)		

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA019618	03/24/2016	

Revised: 10/2023

Meda Pharmaceuticals Inc.