

MESALAMINE - mesalamine suspension

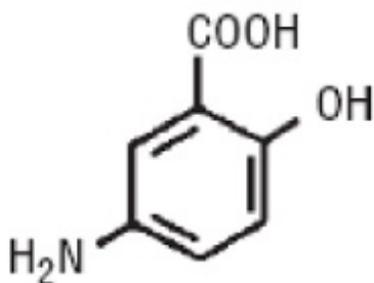
Encube Ethicals Private Limited

Mesalamine Rectal Suspension, USP Enema 4 grams/unit (60 mL)

DESCRIPTION

The active ingredient in Mesalamine Rectal Suspension, USP 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 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 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, 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						
		N	Baseline	Day 22	End Point	Change Baseline to End Point*
Overall DAI	Mesalamine Rectal Suspension Enema	76	7.42	4.05 [†]	3.37 [‡]	-55.07% [‡]
	Placebo	77	7.40	6.03	5.83	-21.58%
Stool Frequency	Mesalamine Rectal Suspension Enema		1.58	1.11 [§]	1.01 [†]	-0.57 [§]
	Placebo		1.92	1.47	1.50	-0.41
Rectal Bleeding	Mesalamine Rectal Suspension Enema		1.82	0.59 [‡]	0.51 [‡]	-1.30 [‡]
	Placebo		1.73	1.21	1.11	-0.61
Mucosal Inflammation	Mesalamine Rectal Suspension Enema		2.17	1.22 [†]	0.96 [‡]	-1.21 [†]
	Placebo		2.18	1.74	1.61	-0.56
Physician's Assessment of Disease Severity	Mesalamine Rectal Suspension Enema		1.86	1.13 [‡]	0.88 [‡]	-0.97 [‡]
	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).

[†] Significant Mesalamine Rectal Suspension, USP/placebo difference. $p < 0.01$

[‡] Significant Mesalamine Rectal Suspension, USP/placebo difference. $p < 0.001$

[§] Significant Mesalamine Rectal Suspension, USP/placebo difference. $p < 0.05$

Differences between 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 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 & USAGE

Mesalamine Rectal Suspension Enema is indicated for the treatment of active mild to moderate distal ulcerative colitis, proctosigmoiditis or proctitis in adults

CONTRAINDICATIONS

Mesalamine Rectal Suspension Enema is contraindicated in patients with known or suspected hypersensitivity to salicylates, aminosalicylates, sulfites or any other component of this medication.

WARNINGS

Hypersensitivity Reactions

Sulfite-Related Reactions

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 Mesalamine Rectal Suspension Enema 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 Mesalamine Rectal Suspension Enema 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 Mesalamine Rectal Suspension Enema 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 Mesalamine Rectal Suspension Enema therapy. Discontinue Mesalamine Rectal Suspension Enema 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 Mesalamine Rectal Suspension Enema.

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 Mesalamine Rectal Suspension Enema in patients with known liver impairment.

Severe Cutaneous Adverse Reaction

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 Mesalamine Rectal Suspension Enema 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.

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 Mesalamine Rectal Suspension Enema 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 Mesalamine Rectal Suspension Enema 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 Mesalamine Rectal Suspension Enema 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 Mesalamine Rectal Suspension Enema, 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 Mesalamine Rectal Suspension Enema.

To report SUSPECTED ADVERSE REACTIONS, contact Encube Ethicals Private Limited. at 1-833-285-4151 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

ADVERSE REACTIONS

Clinical Adverse Experience

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 MESALAMINE RECTAL SUSPENSION ENEMA TREATED PATIENTS (COMPARISON TO PLACEBO)				
SYMPTOM	MESALAMINE RECTAL SUSPENSION ENEMA 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				

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.

OVERDOSAGE

Mesalamine absorption from the colon is limited; however, Mesalamine Rectal Suspension Enema 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 & ADMINISTRATION

The recommended adult dosage of 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 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 Mesalamine Rectal Suspension Enema will modify relapse rates after the 6-week short-term treatment. 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

Mesalamine Rectal Suspension, USP Enema for rectal administration is an off-white to tan colored suspension. Each disposable enema bottle contains 4 grams of mesalamine in 60 mL aqueous suspension. Enema bottles are supplied in boxed, foil-wrapped trays as follows:

NDC 21922-045-47.....Carton of 7 Bottles

NDC 21922-045-49.....Carton of 28 Bottles

Mesalamine Rectal Suspension, USP Enemas are for rectal use only.

KEEP OUT OF REACH OF CHILDREN

Patient instructions are included.

Storage

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature]. 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: 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.

Rx only

Rev. 04/2023

Manufactured by:

Encube Ethicals Pvt. Ltd.

Plot No. C1, Madkaim Industrial Estate, Madkaim,
Post: Mardol, Ponda, Goa - 403 404, India.

Distributed by:

Encube Ethicals, Inc.

200 Meredith Drive, Suite 202,
Durham, North Carolina (NC) 27713,
United States.

For Medical Inquiries, Call Toll Free: 1-833-285-4151

PATIENT INSTRUCTIONS

How to Use this Medication.

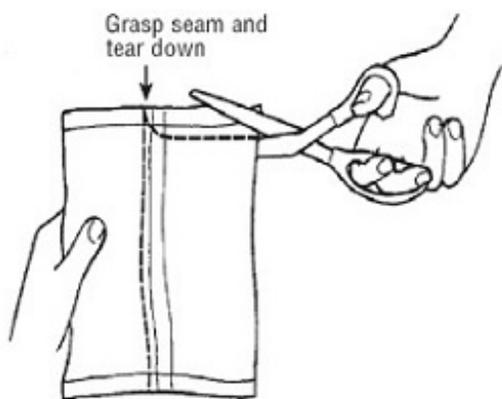
Best results are achieved if the bowel is emptied immediately before the medication is given.

NOTE: 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.

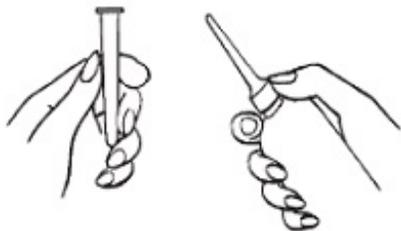
1. Remove the Bottles

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. 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

a. Shake the bottle well to make sure that the medication is thoroughly mixed.
b. 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

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



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



4. Administer the Medication

a. Gently insert the lubricated applicator tip into the rectum to prevent damage to the rectal wall, pointed slightly toward the navel.

b. 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.

Rx only

Rev. 04/2023

Manufactured by:

Encube Ethicals Pvt. Ltd.

Plot No. C1, Madkaim Industrial Estate, Madkaim,
Post: Mardol, Ponda, Goa - 403 404, India.

Distributed by:

Encube Ethicals, Inc.

200 Meredith Drive, Suite 202,
Durham, North Carolina (NC) 27713,
United States.

For Medical Inquiries, Call Toll Free: 1-833-285-4151

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

CARTON LABEL

NDC 21922-045-47

**Mesalamine Rectal Suspension,
USP Enema 4 g/60mL, KIT**

FOR RECTAL USE ONLY

**7×60 mL Unit-Dose Bottles
7 pack**

Rx only



NDC 21922-045-47

Mesalamine Rectal Suspension, USP Enema 4 g/60 mL

KIT

Dispense in existing packaging as one unit, do not repackage
SHAKE WELL BEFORE USING.

FOR RECTAL USE ONLY

7x60 mL Unit-Dose Bottles

7 pack

Rx Only

Unvarnished Area

CITN: SAN LOTE: EXP:

NDC 21922-045-47

Mesalamine Rectal Suspension, USP Enema 4 g/60 mL

Dispense in existing packaging as one unit, do not repackage
SHAKE WELL BEFORE USING.
FOR RECTAL USE ONLY
7x60 mL Unit-Dose Bottles
7 pack

Rx Only

MESUAE

Each disposable unit contains:

Mesalamine (5-aminosalicylic acid)...4 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.

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 1-833-285-4151

Dispense in existing packaging as one unit, do not repackage.



Rev. 7/2022

Mfg. Lic. No.: 361

Manufactured by:
Encube Ethicals Private Limited
Plot No. C-1, Madkaim Industrial Estate,
Madkaim, Post: Mardol, Ponda, Goa - 403 404, India.

Distributed by:
Encube Ethicals, Inc.
200 Meredith Avenue,
Suite 101A Durham, NC 27713 USA.

NDC 21922-045-47
Dispense in existing packaging as one unit, do not repackage
SHAKE WELL BEFORE USING.
FOR RECTAL USE ONLY
7x60 mL Unit-Dose Bottles
7 pack

Rx Only

NDC 21922-045-47

Mesalamine Rectal Suspension, USP Enema 4 g/60 mL

Dispense in existing packaging as one unit, do not repackage
SHAKE WELL BEFORE USING.
FOR RECTAL USE ONLY
7x60 mL Unit-Dose Bottles
7 pack

Rx Only

ENCUB

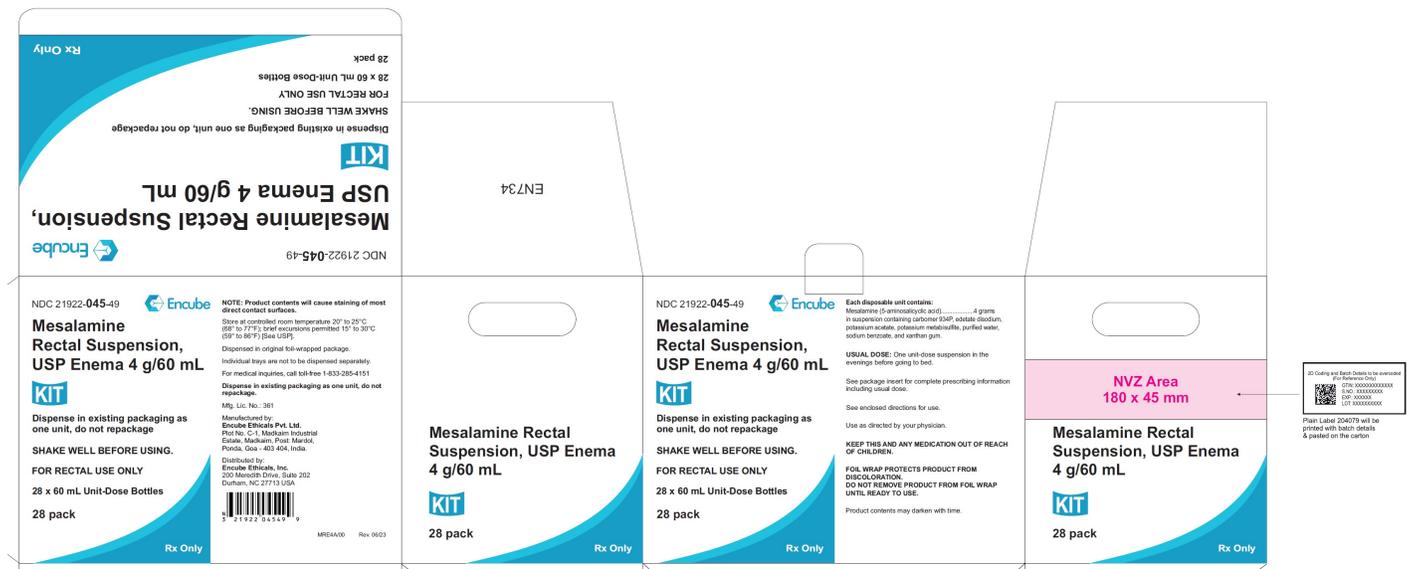
CARTON LABEL

NDC 21922-045-49

Mesalamine Rectal Suspension, USP Enema 4 g/60mL, KIT FOR RECTAL USE ONLY

28x60 mL Unit-Dose Bottles
28 pack

Rx only



CONTAINER LABEL - 60ml

NDC 21922-045-01

Mesalamine Rectal Suspension, USP Enema 4 g/60mL, FOR RECTAL USE ONLY

Rx only



NDC 21922-045-01

Mesalamine Rectal Suspension, USP Enema 4 g/60 mL

FOR RECTAL USE ONLY

60 mL Rx ONLY

Each disposable unit-dose contains:
 Mesalamine 4 grams
 in a suspension containing carbomer 934P, edetate disodium, potassium acetate, potassium metabisulfite, purified water, sodium benzoate, and xanthan gum.

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

Product contents may darken with time. See package insert for complete information.

Keep Out of Reach of Children.

USUAL DOSE: One unit-dose suspension daily before retiring. See enclosed package insert for directions.

Manufactured by: **Encube Ethicals Private Limited**
 Plot No. C-1, Madkaim Industrial Estate, Madkaim,
 Post: Mardol, Ponda, Goa - 403 404, India.

Distributed by: **Encube Ethicals, Inc.**
 200 Meredith Avenue, Suite 101A Durham, NC 27713 USA

Mfg. Lic. No. 361

Lot No.: Unvarnished Area
22 x 18 mm

Exp. Date:

Rev. 7/2022
MRE6A/00



219220450117

MESALAMINE

mesalamine suspension

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:21922-045
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 SUCROSE CROSSLINKED) (UNII: Z135WT9208)	
EDETATE DISODIUM (UNII: 7FLD91C86K)	
POTASSIUM ACETATE (UNII: M911911U02)	
POTASSIUM METABISULFITE (UNII: 65OE787Q7W)	
WATER (UNII: 059QF0KO0R)	
SODIUM BENZOATE (UNII: OJ245FE5EU)	
XANTHAN GUM (UNII: TTV12P4NEE)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:21922-045-47	7 in 1 CARTON	06/01/2023	
1	NDC:21922-045-01	60 mL in 1 BOTTLE, DISPENSING; Type 9: Other Type of Part 3 Combination Product (e.g., Drug/Device/Biological Product)		
2	NDC:21922-045-49	28 in 1 CARTON	06/01/2023	
2	NDC:21922-045-01	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
ANDA	ANDA216941	06/01/2023	

Labeler - Encube Ethicals Private Limited (915834105)

Establishment

Name	Address	ID/FEI	Business Operations
Encube Ethicals Private Limited		725076298	ANALYSIS(21922-045) , LABEL(21922-045) , MANUFACTURE(21922-045) , PACK(21922-045)

Revised: 6/2023

Encube Ethicals Private Limited