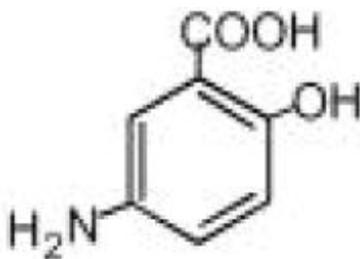


ASACOL- mesalamine tablet, delayed release
Cardinal Health

Asacol®
(mesalamine)
Delayed-Release Tablets

DESCRIPTION

Each **Asacol** delayed-release tablet for oral administration contains 400 mg of mesalamine, an anti-inflammatory drug. The **Asacol** delayed-release tablets are coated with acrylic based resin, Eudragit S (methacrylic acid copolymer B, NF), which dissolves at pH 7 or greater, releasing mesalamine in the terminal ileum and beyond for topical anti-inflammatory action in the colon. Mesalamine has the chemical name 5-amino-2-hydroxybenzoic acid; its structural formula is:



Molecular Weight: 153.1
Molecular Formula: C₇H₇NO₃

Inactive Ingredients: Each tablet contains colloidal silicon dioxide, dibutyl phthalate, edible black ink, iron oxide red, iron oxide yellow, lactose monohydrate, magnesium stearate, methacrylic acid copolymer B (Eudragit S), polyethylene glycol, povidone, sodium starch glycolate, and talc.

CLINICAL PHARMACOLOGY

Mesalamine is thought to be the major therapeutically active part of the sulfasalazine molecule in the treatment of ulcerative colitis. Sulfasalazine is converted to equimolar amounts of sulfapyridine and mesalamine by bacterial action in the colon. The usual oral dose of sulfasalazine for active ulcerative colitis is 3 to 4 grams daily in divided doses, which provides 1.2 to 1.6 grams of mesalamine to the colon.

The mechanism of action of mesalamine (and sulfasalazine) is unknown, but appears to be topical rather than systemic. 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 hydroxyecosatetraenoic acids (HETEs), is increased in patients with chronic inflammatory bowel disease, and it is possible that mesalamine diminishes inflammation by blocking cyclooxygenase and inhibiting prostaglandin (PG) production in the colon.

Pharmacokinetics: **Asacol** tablets are coated with an acrylic-based resin that delays release of mesalamine until it reaches the terminal ileum and beyond. This has been demonstrated in human studies conducted with radiological and serum markers. Approximately 28% of the mesalamine in **Asacol** tablets is absorbed after oral ingestion, leaving the remainder available for topical action and excretion

in the feces. Absorption of mesalamine is similar in fasted and fed subjects. The absorbed mesalamine is rapidly acetylated in the gut mucosal wall and by the liver, It is excreted mainly by the kidney as N-acetyl-5-aminosalicylic acid.

Mesalamine from orally administered **Asacol** tablets appears to be more extensively absorbed than the mesalamine released from sulfasalazine. Maximum plasma levels of mesalamine and N-acetyl-5-aminosalicylic acid following multiple **Asacol** doses are about 1.5 to 2 times higher than those following an equivalent dose of mesalamine in the form of sulfasalazine. Combined mesalamine and N-acetyl-5-aminosalicylic acid AUC's and urine drug dose recoveries following multiple doses of **Asacol** tablets are about 1.3 to 1.5 times higher than those following an equivalent dose of mesalamine in the form of sulfasalazine.

The t_{max} for mesalamine and its metabolite, N-acetyl-5-aminosalicylic acid, is usually delayed, reflecting the delayed release, and ranges from 4 to 12 hours. The half-lives of elimination ($t_{1/2el}$) for mesalamine and N-acetyl-5-aminosalicylic acid are usually about 12 hours, but are variable, ranging from 2 to 15 hours. There is a large intersubject variability in the plasma concentrations of mesalamine and N-acetyl-5-aminosalicylic acid and in their elimination half-lives following administration of **Asacol** tablets.

Clinical Studies :

Mildly to moderately active ulcerative colitis: Two placebo-controlled studies have demonstrated the efficacy of **Asacol** tablets in patients with mildly to moderately active ulcerative colitis. In one randomized, doubleblind, multi-center trial of 158 patients, **Asacol** doses of 1.6 g/day and 2.4 g/day were compared to placebo. At the dose of 2.4 g/day, **Asacol** tablets reduced the disease activity, with 21 of 43 (49%) **Asacol** patients showing improvement in sigmoidoscopic appearance of the bowel compared to 12 of 44 (27%) placebo patients ($p = 0.048$). In addition, significantly more patients in the **Asacol** 2.4 g/day group showed improvement in rectal bleeding and stool frequency. The 1.6 g/day dose did not produce consistent evidence of effectiveness.

In a second randomized, double-blind, placebo-controlled clinical trial of 6 weeks duration in 87 ulcerative colitis patients, **Asacol** tablets, at a dose of 4.8 g/day, gave sigmoidoscopic improvement in 28 of 38 (74%) patients compared to 10 of 38 (26%) placebo patients ($p < 0.001$). Also, more patients in the **Asacol** 4.8 g/day group showed improvement in overall symptoms.

Maintenance of remission of ulcerative colitis: A 6-month, randomized, double-blind, placebo-controlled, multi-center study involved 264 patients treated with **Asacol** 0.8 g/day ($n = 90$), 1.6 g/day ($n = 87$), or placebo ($n = 87$). The proportion of patients treated with 0.8 g/day who maintained endoscopic remission was not statistically significant compared to placebo. In the intention to treat (ITT) analysis of all 174 patients treated with **Asacol** 1.6 g/day or placebo, **Asacol** maintained endoscopic remission of ulcerative colitis in 61 of 87 (70.1%) of patients, compared to 42 of 87 (48.3%) of placebo recipients ($p = 0.005$). A pooled efficacy analysis of 4 maintenance trials compared **Asacol**, at doses of 0.8 g/day to 2.8 g/day, with sulfasalazine, at doses of 2 g/day to 4 g/day ($n = 200$). Treatment success was 59 of 98 (59%) for **Asacol** and 70 of 102 (69%) for sulfasalazine, a non-significant difference.

Study to assess the effect on male fertility: The effect of **Asacol** (mesalamine) on sulfasalazine-induced impairment of male fertility was examined in an open-label study. Nine patients (age < 40 years) with chronic ulcerative colitis in clinical remission on sulfasalazine 2 g/day to 3 g/day were crossed over to an equivalent **Asacol** dose (0.8 g/day to 1.2 g/day) for 3 months. Improvement in sperm count ($p < 0.02$) and morphology ($p < 0.02$) occurred in all cases. Improvement in sperm motility ($p < 0.001$) occurred in 8 of the 9 patients.

INDICATIONS AND USAGE

Asacol tablets are indicated for the treatment of mildly to moderately active ulcerative colitis and for the maintenance of remission of ulcerative colitis.

CONTRAINDICATIONS

Asacol tablets are contraindicated in patients with hypersensitivity to salicylates or to any of the components of the **Asacol** tablet.

PRECAUTIONS

General: Patients with pyloric stenosis may have prolonged gastric retention of **Asacol** tablets which could delay release of mesalamine in the colon.

Exacerbation of the symptoms of colitis has been reported in 3% of **Asacol**-treated patients in controlled clinical trials. This acute reaction, characterized by cramping, abdominal pain, bloody diarrhea, and occasionally by fever, headache, malaise, pruritus, rash, and conjunctivitis, has been reported after the initiation of **Asacol** tablets as well as other mesalamine products. Symptoms usually abate when **Asacol** tablets are discontinued.

Some patients who have experienced a hypersensitivity reaction to sulfasalazine may have a similar reaction to **Asacol** tablets or to other compounds which contain or are converted to mesalamine.

Renal: Renal impairment, including minimal change nephropathy, acute and chronic interstitial nephritis, and, rarely, renal failure has been reported in patients taking **Asacol** tablets as well as other compounds which contain or are converted to mesalamine. In animal studies (rats, dogs), the kidney is the principal target organ for toxicity. At doses of approximately 750 mg/kg to 1000 mg/kg [15 to 20 times the administered recommended human dose (based on a 50 kg person) on a mg/kg basis and 3 to 4 times on a mg/m² basis], mesalamine causes renal papillary necrosis. **Therefore, caution should be exercised when using Asacol (or other compounds which contain or are converted to mesalamine or its metabolites) in patients with known renal dysfunction or history of renal disease. It is recommended that all patients have an evaluation of renal function prior to initiation of Asacol tablets and periodically while on Asacol therapy.**

Use in Hepatic Impairment: There have been reports of hepatic failure in patients with pre-existing liver disease who have been administered mesalamine. Caution should be exercised when administering **Asacol** to patients with liver disease.

Information for Patients: Patients should be instructed to swallow the **Asacol** tablets whole, taking care not to break, cut, or chew the tablets, because the coating is an important part of the delayed-release formulation. In 2% to 3% of patients in clinical studies, intact or partially intact tablets have been reported in the stool. If this occurs repeatedly, patients should contact their physician.

Patients with ulcerative colitis should be made aware that ulcerative colitis rarely remits completely, and that the risk of relapse can be substantially reduced by continued administration of **Asacol** at a maintenance dosage.

Drug Interactions: There are no known drug interactions.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Dietary mesalamine was not carcinogenic in rats at doses as high as 480 mg/kg/day, or in mice at 2000 mg/kg/day. These doses are 2.4 and 5.1 times the maximum recommended human maintenance dose of **Asacol** of 1.6 g/day (32 mg/kg/day if 50 kg body weight assumed or 1184 mg/m²), respectively, based on body surface area. Mesalamine was negative in the Ames assay for mutagenesis, negative for induction of sister chromatid exchanges (SCE) and chromosomal aberrations in Chinese hamster ovary cells in vitro, and negative for induction of micronuclei (MN) in mouse bone marrow polychromatic erythrocytes. Mesalamine, at oral doses up to 480 mg/kg/day (about 1.6 times the recommended human treatment dose on a body surface area basis), was found to have no effect on fertility or reproductive performance of male and female rats.

Pregnancy: Pregnancy Category C: There are no adequate and well controlled studies of **Asacol** use in pregnant women. Limited published human data on mesalamine show no increase in the overall rate of congenital malformations. Some data show an increased rate of preterm birth, stillbirth, and low birth

weight; however, these adverse pregnancy outcomes are also associated with active inflammatory bowel disease. Animal reproduction studies of mesalamine found no evidence of fetal harm. However, dibutyl phthalate (DBP) is an inactive ingredient in **Asacol's** enteric coating, and in animal studies at doses >190 times the human dose based on body surface area, maternal DBP was associated with external and skeletal malformations and adverse effects on the male reproductive system. **Asacol** should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Mesalamine crosses the placenta. In prospective and retrospective studies of over 600 women exposed to mesalamine during pregnancy, the observed rate of congenital malformations was not increased above the background rate in the general population. Some data show an increased rate of preterm birth, stillbirth, and low birth weight, but it is unclear whether this was due to underlying maternal disease, drug exposure, or both, as active inflammatory bowel disease is also associated with adverse pregnancy outcomes.

Reproduction studies with mesalamine were performed during organogenesis in rats and rabbits at oral doses up to 480 mg/kg/day. There was no evidence of impaired fertility or harm to the fetus. These mesalamine doses were about 1.6 times (rat) and 3.2 times (rabbit) the recommended human dose, based on body surface area.

Dibutyl phthalate (DBP) is an inactive ingredient in **Asacol's** enteric coating. The human daily intake of DBP from the maximum recommended dose of **Asacol** tablets is about 21 mg. Published reports in rats show that male rat offspring exposed in utero to DBP (≥ 100 mg/kg/day, approximately 39 times the human dose based on body surface area), display reproductive system aberrations compatible with disruption of androgenic dependent development. The clinical significance of this finding in rats is unknown. At higher dosages (≥ 500 mg/kg/day, approximately 194 times the human dose based on body surface area), additional effects, including cryptorchidism, hypospadias, atrophy or agenesis of sex accessory organs, testicular injury, reduced daily sperm production, permanent retention of nipples, and decreased anogenital distance are noted. Female offspring are unaffected. High doses of DBP, administered to pregnant rats was associated with increased incidences of developmental abnormalities, such as cleft palate (≥ 630 mg/kg/day, about 244 times the human dose, based on body surface area) and skeletal abnormalities (≥ 750 mg/kg/day, about 290 times the human dose based on body surface area) in the offspring.

Nursing Mothers: Mesalamine and its N-acetyl metabolite are excreted into human milk. In published lactation studies, maternal mesalamine doses from various oral and rectal formulations and products ranged from 500 mg to 3 g daily. The concentration of mesalamine in milk ranged from non-detectable to 0.11 mg/L. The concentration of the N-acetyl-5-aminosalicylic acid metabolite ranged from 5 to 18.1 mg/L. Based on these concentrations, estimated infant daily doses for an exclusively breastfed infant are 0 - 0.017 mg/kg/day of mesalamine and 0.75-2.72 mg/kg/day of N-acetyl-5-aminosalicylic acid. Caution should be exercised when **Asacol** is administered to a nursing woman. Dibutyl phthalate (DBP), an inactive ingredient in the enteric coating of **Asacol** tablets, and its primary metabolite mono-butyl phthalate (MBP) are excreted into human milk. In pregnant rats, DBP causes fetal reproductive system aberrations/ malformations in male offspring [see PRECAUTIONS, Pregnancy]. The clinical significance of this is has not been determined.

Pediatric Use: Safety and effectiveness of **Asacol** tablets in pediatric patients have not been established.

Geriatric Use: Clinical studies of **Asacol** did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy in elderly patients should be considered when prescribing **Asacol**. Reports from uncontrolled clinical studies and post-marketing reporting systems suggest a higher incidence of blood dyscrasias, i.e., agranulocytosis, neutropenia, pancytopenia, in subjects receiving **Asacol** who are 65 years or older. Caution should be taken to closely monitor blood cell counts during

drug therapy.

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken when prescribing this drug therapy. As stated in the PRECAUTIONS section, it is recommended that all patients have an evaluation of renal function prior to initiation of **Asacol** tablets and periodically while on **Asacol** therapy.

ADVERSE REACTIONS

Asacol tablets have been evaluated in 3685 inflammatory bowel disease patients (most patients with ulcerative colitis) in controlled and open-label studies. Adverse events seen in clinical trials with **Asacol** tablets have generally been mild and reversible. Adverse events presented in the following sections may occur regardless of length of therapy and similar events have been reported in short- and long-term studies and in the post-marketing setting.

In two short-term (6 weeks) placebo-controlled clinical studies involving 245 patients, 155 of whom were randomized to **Asacol** tablets, five (3.2%) of the **Asacol** patients discontinued **Asacol** therapy because of adverse events as compared to two (2.2%) of the placebo patients. Adverse reactions leading to withdrawal from **Asacol** tablets included (each in one patient): diarrhea and colitis flare; dizziness, nausea, joint pain, and headache; rash, lethargy and constipation; dry mouth, malaise, lower back discomfort, mild disorientation, mild indigestion and cramping; headache, nausea, aching, vomiting, muscle cramps, a stuffy head, plugged ears, and fever.

Adverse events occurring in **Asacol**-treated patients at a frequency of 2% or greater in the two short-term, double-blind, placebo-controlled trials mentioned above are listed in Table 1 below. Overall, the incidence of adverse events seen with **Asacol** tablets was similar to placebo.

Table 1 Frequency (%) of Common Adverse Events Reported in Ulcerative Colitis Patients Treated with Asacol Tablets or Placebo in Short-Term (6-Week) Double-Blind Controlled Studies

<u>Event</u>	<u>Percent of Patients with Adverse Events</u>	
	<u>Placebo (n = 87)</u>	<u>Asacol tablets (n = 152)</u>
Headache	36	35
Abdominal pain	14	18
Eructation	15	16
Pain	8	14
Nausea	15	13
Pharyngitis	9	11
Dizziness	8	8
Asthenia	15	7
Diarrhea	9	7
Back pain	5	7
Fever	8	6
Rash	3	6
Dyspepsia	1	6
Rhinitis	5	5
Arthralgia	3	5
Hypertonia	3	5
Vomiting	2	5

Constipation	1	5
Flatulence	7	3
Dysmenorrhea	3	3
Chest pain	2	3
Chills	2	3
Flu syndrome	2	3
Peripheral edema	2	3
Myalgia	1	3
Sweating	1	3
Colitis exacerbation	0	3
Pruritus	0	3
Acne	1	2
Increased cough	1	2
Malaise	1	2
Arthritis	0	2
Conjunctivitis	0	2
Insomnia	0	2

Of these adverse events, only rash showed a consistently higher frequency with increasing **Asacol** dose in these studies.

In a 6-month placebo-controlled maintenance trial involving 264 patients, 177 of whom were randomized to **Asacol** tablets, six (3.4%) of the **Asacol** patients discontinued **Asacol** therapy because of adverse events, as compared to four (4.6%) of the placebo patients. Adverse reactions leading to withdrawal from **Asacol** tablets included (each in one patient): anxiety; headache; pruritus; decreased libido; rheumatoid arthritis; and stomatitis and asthenia.

In the 6-month placebo-controlled maintenance trial, the incidence of adverse events seen with **Asacol** tablets was similar to that seen with placebo. In addition to events listed in Table 1, the following adverse events occurred in **Asacol**-treated patients at a frequency of 2% or greater in this study: abdominal enlargement, anxiety, bronchitis, ear disorder, ear pain, gastroenteritis, gastrointestinal hemorrhage, infection, joint disorder, migraine, nervousness, paresthesia, rectal disorder, rectal hemorrhage, sinusitis, stool abnormalities, tenesmus, urinary frequency, vasodilation, and vision abnormalities.

In 3342 patients in uncontrolled clinical studies, the following adverse events occurred at a frequency of 5% or greater and appeared to increase in frequency with increasing dose: asthenia, fever, flu syndrome, pain, abdominal pain, back pain, flatulence, gastrointestinal bleeding, arthralgia, and rhinitis.

In addition to the adverse events listed above, the following events have been reported in clinical studies, literature reports, and postmarketing use of products which contain (or have been metabolized to) mesalamine. Because many of these events were reported voluntarily from a population of unknown size, estimates of frequency cannot be made. These events have been chosen for inclusion due to their seriousness or potential causal connection to mesalamine:

Body as a Whole: Neck pain, facial edema, edema, lupus-like syndrome, drug fever (rare).

Cardiovascular: Pericarditis (rare), myocarditis (rare).

Gastrointestinal: Anorexia, pancreatitis, gastritis, increased appetite, cholecystitis, dry mouth, oral ulcers, perforated peptic ulcer (rare), bloody diarrhea. There have been rare reports of hepatotoxicity including, jaundice, cholestatic jaundice, hepatitis, and possible hepatocellular damage including liver necrosis and liver failure. Some of these cases were fatal. Asymptomatic elevations of liver enzymes which usually resolve during continued use or with discontinuation of the drug have also been reported. One case of Kawasaki-like syndrome which included changes in liver enzymes was also reported.

Hematologic: Agranulocytosis (rare), aplastic anemia (rare), thrombocytopenia, eosinophilia, leukopenia, anemia, lymphadenopathy.

Musculoskeletal: Gout.

Nervous: Depression, somnolence, emotional lability, hyperesthesia, vertigo, confusion, tremor, peripheral neuropathy (rare), transverse myelitis (rare), Guillain-Barré syndrome (rare).

Respiratory/Pulmonary: Eosinophilic pneumonia, interstitial pneumonitis, asthma exacerbation, pleuritis.

Skin: Alopecia, psoriasis (rare), pyoderma gangrenosum (rare), dry skin, erythema nodosum, urticaria.

Special Senses: Eye pain, taste perversion, blurred vision, tinnitus.

Urogenital: Renal Failure (rare), interstitial nephritis, minimal change nephropathy (See also Renal subsection in PRECAUTIONS). Dysuria, urinary urgency, hematuria, epididymitis, menorrhagia.

Laboratory Abnormalities: Elevated AST (SGOT) or ALT (SGPT), elevated alkaline phosphatase, elevated GGT, elevated LDH, elevated bilirubin, elevated serum creatinine and BUN.

DRUG ABUSE AND DEPENDENCY

Abuse: None reported.

Dependency: Drug dependence has not been reported with chronic administration of mesalamine.

OVERDOSAGE

Two cases of pediatric overdose have been reported. A 3-year-old male who ingested 2 grams of **Asacol** tablets was treated with ipecac and activated charcoal; no adverse events occurred. Another 3-year-old male, approximately 16 kg, ingested an unknown amount of a maximum of 24 grams of **Asacol** crushed in solution (i.e., uncoated mesalamine); he was treated with orange juice and activated charcoal, and experienced no adverse events. In dogs, single doses of 6 grams of delayed-release **Asacol** tablets resulted in renal papillary necrosis but were not fatal. This was approximately 12.5 times the recommended human dose (based on a dose of 2.4 g/day in a 50 kg person). Single oral doses of uncoated mesalamine in mice and rats of 5000 mg/kg and 4595 mg/kg, respectively, or of 3000 mg/kg in cynomolgus monkeys, caused significant lethality.

DOSAGE AND ADMINISTRATION

For the treatment of mildly to moderately active ulcerative colitis: The usual dosage in adults is two 400-mg tablets to be taken three times a day for a total daily dose of 2.4 grams for a duration of 6 weeks.

For the maintenance of remission of ulcerative colitis: The recommended dosage in adults is 1.6 grams daily, in divided doses. Treatment duration in the prospective, well-controlled trial was 6 months.

Two **Asacol** 400 mg tablets have not been shown to be bioequivalent to one **Asacol**® HD (mesalamine) delayed-release 800 mg tablet.

HOW SUPPLIED

Asacol tablets are available as red-brown, capsule-shaped tablets containing 400 mg mesalamine and imprinted "Asacol NE" in black.

NDC 0149-0752-15 Bottle of 180

Store at controlled room temperature 20°- 25°C (68°- 77°F) [See USP].

Manufactured by:

Warner Chilcott Deutschland GmbH

D-64331 Weiterstadt

Germany

Marketed by:

Warner Chilcott Pharmaceuticals Inc.

Mason, OH 45040

1-800-836-0658

Under license from Medeva Pharma Suisse AG (registered trademark owner).

U.S. Patent Nos. 5,541,170 and 5,541,171

To report SUSPECTED ADVERSE REACTIONS, contact Warner Chilcott at 1-800-836-0658 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

REVISED May 2010

Asacol 400 mg tablets are available from Cardinal Health in unit dose packages of 180.

NDC 55154-2305-4 400 mg Tablet

Cardinal Health

Zanesville OH 43701

IU37360221010

PRINCIPAL DISPLAY PANEL - Carton

NDC 55154-2305-4

Asacol[®]

(mesalamine)

Delayed-Release Tablet

400 mg per tablet

180 Tablets

See product insert for full prescribing information, precautions and warnings.

Not Bioequivalent to Asacol HD

For the treatment of mildly to moderately active ulcerative colitis:

The usual dosage in adults is two 400-mg tablets to be taken three times a day for a total daily dose of 2.4 grams for a duration of 6 weeks.

For the maintenance of remission of ulcerative colitis: The recommended dosage in adults is 1.6 grams daily, in divided doses.

Do not break, crush, or chew the tablet. Swallow whole with water.

STORAGE: Store at controlled room temperature 20°-25°C (68°-77°F) [See USP]

RX ONLY

WARNING: This package is intended for institutional use only. This package is not child resistant.
Keep this and all drugs out of the reach of children.

See window for lot number and expiration date.

Warner Chilcott Pharmaceuticals Inc.

Mason, OH 45040

under license from Medeva Pharma Suisse AG,
(registered trademark owner).

Made in Germany, D-64331 Weiterstadt

U.S. Patent Nos. 5,541,170 and 5,541,171

asacol.com

Rerpackaged by: Cardinal Health

Zanesville, OH 43701

LUC37360221110

NDC 55154-2305-4

Asacol®
(mesalamine) Delayed-Release Tablets
400 mg per tablet
180 Tablets



(01)00355154230545

NDC 55154-2305-4

Asacol®
(mesalamine) Delayed-Release Tablets
400 mg per tablet
180 Tablets

See product insert for full prescribing information, precautions and warnings.

Not Bioequivalent to Asacol HD

For the treatment of mildly to moderately active ulcerative colitis:
The usual dosage in adults is two 400-mg tablets to be taken three times a day for a total daily dose of 2.4 grams for a duration of 6 weeks.

For the maintenance of remission of ulcerative colitis:
The recommended dosage in adults is 1.6 grams daily, in divided doses.

Do not break, crush, or chew the tablet. Swallow whole with water.

STORAGE: Store at controlled room temperature 20°-25°C (68°-77°F) [See USP].

RX ONLY

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Warner Chilcott Pharmaceuticals Inc.

Mason, OH 45040

under license from Medeva Pharma Suisse AG,
(registered trademark owner).

Made in Germany, D-64331 Weiterstadt

U.S. Patent Nos. 5,541,170 and 5,541,171

asacol.com



CardinalHealth

Repackaged by: Cardinal Health
Zanesville, OH 43701

LUC37360221110

PRINCIPAL DISPLAY PANEL - Pouch

Asacol®

(mesalamine)

Delayed-Release Tablet

400 mg

Asacol®
 (mesalamine)
 Delayed-Release Tablet
 400 mg



(01)00355154230569
 Lot:xxxxxxxx Exp:12/34

Repackaged by: Cardinal Health
 Zanesville, Ohio 43701
 LUP37360220211

Principal Display Panel- Label

Contains Approximately 4320 Tablets

Asacol®

(mesalamine)

delayed-release tablet

contains 400 mg of mesalamine

Not Bioequivalent to Asacol HD

Rx Only

Warning: Keep out of reach of children.

Contains Approximately
4320 Tablets

ASACOL®
 (mesalamine)
 delayed-release tablets
400 mg

Each delayed-release tablet
contains 400 mg of mesalamine
Not Bioequivalent to Asacol HD
Rx ONLY
WARNING: Keep out of
reach of children.

For the treatment of mildly to moderately
active ulcerative colitis: The usual dosage
in adults is two 400-mg tablets to be taken
three times a day for a total daily dose of
2.4 grams for a duration of 6 weeks.

For the maintenance of remission of ulcerative
colitis: The recommended dosage in adults is
1.6 grams daily, in divided doses. See
package insert for full prescribing information.
Do not break, crush, or chew the tablet.
Swallow whole with water.

Store at controlled room temperature
20°-25°C (68°-77°F) [See USP].
Bulk Manufacturer NDC 0149-0752-15
Procter & Gamble Pharmaceuticals, Inc.
Cincinnati, OH 45202
under license from Medeva Pharma Suisse AG,
(registered trademark owner).
Made in Germany, D-64331 Weiterstadt
U.S. Patent Nos. 5,541,170 and 5,541,171
asacol.com

Repackaged by: Cardinal Health
Zanesville, OH 43701

Lot No.:
L70160710

Exp. Date:



3 890302 49199 3

Principal Display Panel - Label

Contains Approximately 1440 Tablets

Asacol®

(mesalamine)

delayed-release tablets

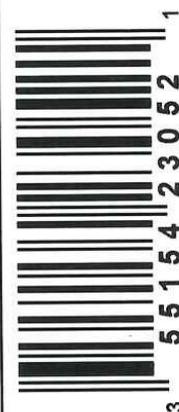
400 mg

Each delayed-release tablet contains 400 mg of mesalamine

Not Bioequivalent to Asacol HD

Rx Only

Warning: Keep out of reach of children.



Contains Approximately
1440 Tablets

ASACOL[®]
(mesalamine)
delayed-release tablets
400 mg

Each delayed-release tablet
contains 400 mg of mesalamine
Not Bioequivalent to Asacol HD

Rx ONLY

WARNING: Keep out of
reach of children.

For the treatment of mildly to moderately
active ulcerative colitis: The usual dosage
in adults is two 400-mg tablets to be taken
three times a day for a total daily dose of
2.4 grams for a duration of 6 weeks.

For the maintenance of remission of ulcerative
colitis: The recommended dosage in adults is
1.6 grams daily, in divided doses. See
package insert for full prescribing information.
Do not break, crush, or chew the tablet.
Swallow whole with water.

Store at controlled room temperature
20°-25°C (68°-77°F) [See USP].

Bulk Manufacturer NDC 0149-0752-15
Procter & Gamble Pharmaceuticals, Inc.
Cincinnati, OH 45202

under license from Medeva Pharma Suisse AG,
(registered trademark owner).
Made in Germany, D-64331 Weiterstadt
U.S. Patent Nos. 5,541,170 and 5,541,171
asacol.com

Repackaged by: Cardinal Health
Zanesville, OH 43701

L70170710

Lot No.:

Exp. Date:

Principal Display Panel - Bag

Asacol[®]

400 mg

Mesalamine Delayed-Release Tablets

10 Tablets



P54

NDC 55154-2305-0

ASACOL[®] 400 MG PER TABLET Mesalamine Delayed-Release Tablets 10 TABLETS

See product insert for full prescribing information, precautions and warnings.

Not Bioequivalent to Asacol HD

For the treatment of mildly to moderately active ulcerative colitis: The usual dosage in adults is two 400-mg tablets to be taken three times a day for a total daily dose of 2.4 grams for a duration of 6 weeks.

For the maintenance of remission of ulcerative colitis: The recommended dosage in adults is 1.6 grams daily, in divided doses.

Do not break, crush, or chew the tablet. Swallow whole with water.

STORAGE: Store at Controlled Room Temperature 20 - 25 C (68 - 77 F) [See USP].

RX ONLY

WARNING: This package is intended for institutional use only. This package is not child resistant. Keep this and all drugs out of the reach of children.

Warner Chilcott Pharmaceuticals Inc.
Mason, OH 45040
under license from Medeva Pharma Suisse AG,
(registered trademark owner).
Made in Germany, D-64331 Weiterstadt
U.S. Patent Nos. 5,541,170 and 5,541,171
asacol.com

Repackaged by Cardinal Health
Zanesville, OH 43701
L37360220811

LOT #: XXXX



EXP. DATE: 12/34



ASACOL

mesalamine tablet, delayed release

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:55154-2305(NDC:0149-0752)
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
mesalamine (UNII: 4Q8 1I59 GXC) (mesalamine - UNII:4Q8 1I59 GXC)	mesalamine	400 mg

Inactive Ingredients	
Ingredient Name	Strength
ferric oxide red (UNII: 1K09F3G675)	

ferric oxide yellow (UNII: EX438O2MRT)	
lactose monohydrate (UNII: EWQ57Q8I5X)	
magnesium stearate (UNII: 70097M6I30)	
methacrylic acid - methyl methacrylate copolymer (1:2) (UNII: 5KY68S2577)	
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)	
POVIDONE, UNSPECIFIED (UNII: FZ989GH94E)	
sodium starch glycolate type A potato (UNII: 5856J3G2A2)	
talc (UNII: 7SEV7J4RIU)	

Product Characteristics

Color	BROWN (red-brown)	Score	no score
Shape	OVAL (capsule-shaped)	Size	1mm
Flavor		Imprint Code	Asacol;NE
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:55154-2305-4	180 in 1 CARTON	04/01/1992	11/30/2012
1	NDC:55154-2305-6	1 in 1 POUCH; Type 0: Not a Combination Product		
2	NDC:55154-2305-8	4320 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	04/01/1992	11/30/2012
3	NDC:55154-2305-2	1440 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	04/01/1992	11/30/2012
4	NDC:55154-2305-0	10 in 1 BAG	04/01/1992	12/31/2012
4		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
NDA	NDA019651	04/01/1992	

Labeler - Cardinal Health (188557102)

Establishment

Name	Address	ID/FEI	Business Operations
Cardinal Health		188557102	REPACK(55154-2305)