DIMETHYL FUMARATE - dimethyl fumarate capsule, delayed release Ouallent Pharmaceuticals Health LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DIMETHYL FUMARATE DELAYED-RELEASE CAPSULES safely and effectively. See full prescribing information for DIMETHYL FUMARATE DELAYED-RELEASE CAPSULES.

DIMETHYL FUMARATE delayed-release capsules, for oral use

Initial U.S. Approval: 2013INDICATIONS AND USAGE
Dimethyl fumarate delayed-release capsules are indicated for the treatment of relapsing forms of multiple sclerosis (MS), to include clinically isolated syndrome, relapsing-remitting disease, and active secondary progressive disease, in adults. (1) DOSAGE AND ADMINISTRATION
 Starting dose: 120 mg twice a day, orally, for 7 days (2.1) Maintenance dose after 7 days: 240 mg twice a day, orally (2.1) Swallow dimethyl fumarate delayed-release capsules whole and intact. Do not crush, chew, or sprinkle capsule contents on food (2.1) Take dimethyl fumarate delayed-release capsules with or without food (2.1) DOSAGE FORMS AND STRENGTHS
Delayed-release capsules:240 mg (3)
CONTRAINDICATIONS
Known hypersensitivity to dimethyl fumarate or any of the excipients of dimethyl fumarate delayed-release capsules. (4)
WARNINGS AND PRECAUTIONS
 Anaphylaxis and Angioedema: Discontinue and do not restart dimethyl fumarate delayed-release capsules if these occur. (5.1) Progressive Multifocal Leukoencephalopathy (PML): Withhold dimethyl fumarate delayed-release capsules at the first sign or symptom suggestive of PML. (5.2) Herpes Zoster and Other Serious Opportunistic Infections: Consider withholding dimethyl fumarate delayed-release capsules in cases of serious infection until the infection has resolved. (5.3) Lymphopenia: Obtain a CBC including lymphocyte count before initiating dimethyl fumarate delayed-release capsules, after 6 months, and every 6 to 12 months thereafter. Consider interruption of dimethyl

• Liver Injury: Obtain serum aminotransferase, alkaline phosphatase, and total bilirubin levels before initiating dimethyl fumarate delayed-release capsules and during treatment, as clinically indicated. Discontinue dimethyl fumarate delayed-release capsules if clinically significant liver injury induced by dimethyl fumarate delayed-release capsules is suspected. (5.5)

fumarate delayed-release capsules if lymphocyte counts $< 0.5 \times 10^{-9}$ /L persist for more than 6 months. (

----- ADVERSE REACTIONS

Most common adverse reactions (incidence $\geq 10\%$ and $\geq 2\%$ placebo) were flushing, abdominal pain, diarrhea, and nausea. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Quallent Pharmaceuticals Health LLC at 1-877-605-7243 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 10/2025

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Dimethyl fumarate delayed-release capsules are indicated for the treatment of relapsing forms of multiple sclerosis (MS), to include clinically isolated syndrome, relapsing-remitting disease, and active secondary progressive disease, in adults.

2 DOSAGE AND ADMINISTRATION

2.1 Dosing Information

The starting dose for dimethyl fumarate delayed-release capsules is 120 mg twice a day orally. After 7 days, the dose should be increased to the maintenance dose of 240 mg twice a day orally. Temporary dose reductions to 120 mg twice a day may be considered for individuals who do not tolerate the maintenance dose. Within 4 weeks, the recommended dose of 240 mg twice a day should be resumed. Discontinuation of dimethyl fumarate delayed-release capsules should be considered for patients unable to tolerate return to the maintenance dose. The incidence of flushing may be reduced by administration of dimethyl fumarate delayed-release capsules with food. Alternatively, administration of non-enteric coated aspirin (up to a dose of 325 mg) 30 minutes prior to dimethyl fumarate delayed-release capsules dosing may reduce the incidence or severity of flushing [see Clinical Pharmacology (12.3)].

Dimethyl fumarate delayed-release capsules should be swallowed whole and intact. Dimethyl fumarate delayed-release capsules should not be crushed or chewed, and the capsule contents should not be sprinkled on food. Dimethyl fumarate delayed-release capsules can be taken with or without food.

2.2 Blood Tests Prior to Initiation of Therapy

Obtain a complete blood cell count (CBC) including lymphocyte count before initiation of therapy [see Warnings and Precautions (5.4)].

Obtain serum aminotransferase, alkaline phosphatase, and total bilirubin levels prior to treatment with dimethyl fumarate delayed-release capsules [see Warnings and Precautions (5.5)].

3 DOSAGE FORMS AND STRENGTHS

Dimethyl fumarate is available as hard gelatin delayed-release capsules containing 240 mg of dimethyl fumarate, USP. The 240 mg capsules are white opaque size '0el' hard gelatin capsules imprinted with 'H' on cap and 'D15' on body filled with white to off white tablets.

4 CONTRAINDICATIONS

Dimethyl fumarate delayed-release capsules are contraindicated in patients with known hypersensitivity to dimethyl fumarate or to any of the excipients of dimethyl fumarate delayed-release capsules. Reactions have included anaphylaxis and angioedema [see Warnings and Precautions (5.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Anaphylaxis and Angioedema

Dimethyl fumarate delayed-release capsules can cause anaphylaxis and angioedema after the first dose or at any time during treatment. Signs and symptoms have included difficulty breathing, urticaria, and swelling of the throat and tongue. Patients should be instructed to discontinue dimethyl fumarate delayed-release capsules and seek immediate medical care should they experience signs and symptoms of anaphylaxis or angioedema.

5.2 Progressive Multifocal Leukoencephalopathy

Progressive multifocal leukoencephalopathy (PML) has occurred in patients with MS treated with dimethyl fumarate delayed-release capsules. PML is an opportunistic viral infection of the brain caused by the JC virus (JCV) that typically only occurs in patients who are immunocompromised, and that usually leads to death or severe disability. A fatal case of PML occurred in a patient who received dimethyl fumarate delayed-release capsules for 4 years while enrolled in a clinical trial. During the clinical trial, the patient experienced prolonged lymphopenia (lymphocyte counts predominantly $< 0.5 \times 10^{-9}$ /L for 3.5 years) while taking dimethyl fumarate delayed-release capsules [see Warnings and *Precautions (5.4)*]. The patient had no other identified systemic medical conditions resulting in compromised immune system function and had not previously been treated with natalizumab, which has a known association with PML. The patient was also not taking any immunosuppressive or immunomodulatory medications concomitantly. PML has also occurred in the postmarketing setting in the presence of lymphopenia (<0.9x10 ⁹/L). While the role of lymphopenia in these cases is uncertain, the PML cases have occurred predominantly in patients with lymphocyte counts <0.8x10 ⁹/L persisting for more than 6 months.

At the first sign or symptom suggestive of PML, withhold dimethyl fumarate delayedrelease capsules and perform an appropriate diagnostic evaluation. Typical symptoms associated with PML are diverse, progress over days to weeks, and include progressive weakness on one side of the body or clumsiness of limbs, disturbance of vision, and changes in thinking, memory, and orientation leading to confusion and personality changes.

MRI findings may be apparent before clinical signs or symptoms. Cases of PML, diagnosed based on MRI findings and the detection of JCV DNA in the cerebrospinal fluid in the absence of clinical signs or symptoms specific to PML, have been reported in patients treated with other MS medications associated with PML. Many of these patients subsequently became symptomatic with PML. Therefore, monitoring with MRI for signs that may be consistent with PML may be useful, and any suspicious findings should lead to further investigation to allow for an early diagnosis of PML, if present. Lower PML-related mortality and morbidity have been reported following discontinuation of another MS medication associated with PML in patients with PML who were initially asymptomatic compared to patients with PML who had characteristic clinical signs and symptoms at diagnosis. It is not known whether these differences are due to early detection and discontinuation of MS treatment or due to differences in disease in these patients.

5.3 Herpes Zoster and Other Serious Opportunistic Infections

Serious cases of herpes zoster have occurred with dimethyl fumarate delayed-release capsules, including disseminated herpes zoster, herpes zoster ophthalmicus, herpes zoster meningoencephalitis, and herpes zoster meningomyelitis. These events may occur at any time during treatment. Monitor patients on dimethyl fumarate delayed-release capsules for signs and symptoms of herpes zoster. If herpes zoster occurs, appropriate treatment for herpes zoster should be administered.

Other serious opportunistic infections have occurred with dimethyl fumarate delayed-release capsules, including cases of serious viral (herpes simplex virus, West Nile virus, cytomegalovirus), fungal (Candida and Aspergillus), and bacterial (Nocardia, Listeria monocytogenes, Mycobacterium tuberculosis) infections. These infections have been reported in patients with reduced absolute lymphocyte counts (ALC) as well as in patients with normal ALC. These infections have affected the brain, meninges, spinal cord, gastrointestinal tract, lungs, skin, eye, and ear. Patients with symptoms and signs consistent with any of these infections should undergo prompt diagnostic evaluation and receive appropriate treatment.

Consider withholding dimethyl fumarate delayed-release capsules treatment in patients with herpes zoster or other serious infections until the infection has resolved [see Adverse Reactions (6.2)].

5.4 Lymphopenia

Dimethyl fumarate delayed-release capsules may decrease lymphocyte counts. In the MS placebo-controlled trials, mean lymphocyte counts decreased by approximately 30% during the first year of treatment with dimethyl fumarate delayed-release capsules and then remained stable. Four weeks after stopping dimethyl fumarate delayed-release capsules, mean lymphocyte counts increased but did not return to baseline. Six percent (6%) of dimethyl fumarate delayed-release capsules patients and <1% of placebo patients experienced lymphocyte counts <0.5x10 9 /L (lower limit of normal 0.91x10 9 /L). The incidence of infections (60% vs 58%) and serious infections (2% vs 2%) was similar in patients treated with dimethyl fumarate delayed-release capsules or placebo, respectively. There was no increased incidence of serious infections observed in patients with lymphocyte counts <0.8x10 9 /L or <0.5x10 9 /L in controlled trials, although one patient in an extension study developed PML in the setting of prolonged lymphopenia (lymphocyte counts predominantly <0.5x10 9 /L for 3.5 years) [see Warnings and Precautions (5.2)].

In controlled and uncontrolled clinical trials, 2% of patients experienced prolonged, severe lymphopenia, (defined as lymphocyte counts <0.5 x 10^{-9} /L for at least six months); in this group of patients, the majority of lymphocyte counts remained <0.5x10 $^{-9}$ /L with continued therapy. In these patients with prolonged, severe lymphopenia, the median time for lymphocyte counts to return to normal after discontinuing dimethyl fumarate delayed-release capsules was 96.0 weeks.

In these controlled and uncontrolled clinical studies, among patients who did not experience prolonged, severe lymphopenia during treatment, the median times for lymphocyte counts to return to normal after discontinuing dimethyl fumarate delayed-release capsules were as follows:

• 4.3 weeks in patients with mild lymphopenia (lymphocyte count \geq 0.8x10 9 /L) at discontinuation.

- 10.0 weeks in patients with moderate lymphopenia (lymphocyte count 0.5 to $< 0.8 \times 10^{9}$ /L) at discontinuation, and
- 16.7 weeks in patients with severe lymphopenia (lymphocyte count $< 0.5 \times 10^{-9}$ /L) at discontinuation.

Dimethyl fumarate delayed-release capsules have not been studied in patients with preexisting low lymphocyte counts.

Obtain a CBC, including lymphocyte count, before initiating treatment with dimethyl fumarate delayed-release capsules, 6 months after starting treatment, and then every 6 to 12 months thereafter, and as clinically indicated. Consider interruption of dimethyl fumarate delayed-release capsules in patients with lymphocyte counts less than 0.5 x 10 9 /L persisting for more than six months. Given the potential for delayed recovery of lymphocyte counts, continue to obtain lymphocyte counts until their recovery if dimethyl fumarate delayed-release capsules are discontinued or interrupted due to lymphopenia. Consider withholding treatment from patients with serious infections until resolution. Decisions about whether or not to restart dimethyl fumarate delayed-release capsules should be individualized based on clinical circumstances.

5.5 Liver Injury

Clinically significant cases of liver injury have been reported in patients treated with dimethyl fumarate delayed-release capsules in the postmarketing setting. The onset has ranged from a few days to several months after initiation of treatment with dimethyl fumarate delayed-release capsules. Signs and symptoms of liver injury, including elevation of serum aminotransferases to greater than 5-fold the upper limit of normal and elevation of total bilirubin to greater than 2-fold the upper limit of normal have been observed. These abnormalities resolved upon treatment discontinuation. Some cases required hospitalization. None of the reported cases resulted in liver failure, liver transplant, or death. However, the combination of new serum aminotransferase elevations with increased levels of bilirubin caused by drug-induced hepatocellular injury is an important predictor of serious liver injury that may lead to acute liver failure, liver transplant, or death in some patients.

Elevations of hepatic transaminases (most no greater than 3 times the upper limit of normal) were observed during controlled trials [see Adverse Reactions (6.1)]. Obtain serum aminotransferase, alkaline phosphatase (ALP), and total bilirubin levels prior to treatment with dimethyl fumarate delayed-release capsules and during treatment, as clinically indicated. Discontinue dimethyl fumarate delayed-release capsules if clinically significant liver injury induced by dimethyl fumarate delayed-release capsules is suspected.

5.6 Flushing

Dimethyl fumarate delayed-release capsules may cause flushing (e.g., warmth, redness, itching, and/or burning sensation). In clinical trials, 40% of dimethyl fumarate delayed-release capsules treated patients experienced flushing. Flushing symptoms generally began soon after initiating dimethyl fumarate delayed-release capsules and usually improved or resolved over time. In the majority of patients who experienced flushing, it was mild or moderate in severity. Three percent (3%) of patients discontinued dimethyl fumarate delayed-release capsules for flushing and <1% had serious flushing symptoms

that were not life-threatening but led to hospitalization. Administration of dimethyl fumarate delayed-release capsules with food may reduce the incidence of flushing. Alternatively, administration of non-enteric coated aspirin (up to a dose of 325 mg) 30 minutes prior to dimethyl fumarate delayed-release capsules dosing may reduce the incidence or severity of flushing [see Dosing and Administration (2.1) and Clinical Pharmacology (12.3)].

5.7 Serious Gastrointestinal Reactions

Serious gastrointestinal reactions, including perforation, ulceration, hemorrhage, and obstruction, some with fatal outcomes, have been reported in the postmarketing setting with the use of fumaric acid esters, including dimethyl fumarate delayed-release capsules, with or without concomitant aspirin use. The majority of these events have occurred within 6 months of fumaric acid ester treatment initiation. In controlled clinical trials, the incidence of serious gastrointestinal adverse events was 1% in patients treated with dimethyl fumarate delayed-release capsules; these events, none of which were fatal, included vomiting (0.3%) and abdominal pain (0.3%) [see Adverse Reactions (6.1)].

Monitor patients, promptly evaluate, and discontinue dimethyl fumarate delayed-release capsules for new or worsening severe gastrointestinal signs and symptoms.

6 ADVERSE REACTIONS

The following important adverse reactions are described elsewhere in labeling:

- Anaphylaxis and Angioedema [see Warnings and Precautions (5.1)]
- Progressive multifocal leukoencephalopathy [see Warnings and Precautions (5.2)]
- Herpes Zoster and Other Serious Opportunistic Infections [see Warnings and Precautions (5.3)]
- Lymphopenia [see Warnings and Precautions (5.4)]
- Liver Injury [see Warnings and Precautions (5.5)]
- Flushing [see Warnings and Precautions (5.6)]
- Serious Gastrointestinal Reactions [see Warnings and Precautions (5.7)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice. In placebo-controlled and uncontrolled clinical studies, a total of 2513 patients have received dimethyl fumarate delayed-release capsules and been followed for periods up to 13 years with an overall exposure of 11,318 person-years. Approximately 1169 patients have received more than 5 years of treatment with dimethyl fumarate delayed-release capsules, and 426 patients have received at least 10 years of treatment with dimethyl fumarate delayed-release capsules.

Adverse Reactions in Placebo-Controlled Trials

In the two well-controlled studies demonstrating effectiveness, 1529 patients received dimethyl fumarate delayed-release capsules with an overall exposure of 2244 person-

years [see Clinical Studies (14)].

The adverse reactions presented in the table below are based on safety information from 769 patients treated with dimethyl fumarate delayed-release capsules 240 mg twice a day and 771 placebo-treated patients.

The most common adverse reactions (incidence $\geq 10\%$ and $\geq 2\%$ more than placebo) for dimethyl fumarate delayed-release capsules were flushing, abdominal pain, diarrhea, and nausea.

Table 1: Adverse Reactions in Study 1 and 2 reported for Dimethyl Fumarate Delayed-Release Capsules 240 mg BID at ≥ 2% higher incidence than placebo

	Dimethyl Fumarate Delayed- ReleaseCapsules N=769 %	Placebo N=771 %
Flushing	40	6
Abdominal pain	18	10
Diarrhea	14	11
Nausea	12	9
Vomiting	9	5
Pruritus	8	4
Rash	8	3
Albumin urine present	6	4
Erythema	5	1
Dyspepsia	5	3
Aspartate aminotransferase increased	4	2
Lymphopenia	2	<1

Gastrointestinal

Dimethyl fumarate delayed-release capsules caused GI events (e.g., nausea, vomiting, diarrhea, abdominal pain, and dyspepsia). The incidence of GI events was higher early in the course of treatment (primarily in month 1) and usually decreased over time in patients treated with dimethyl fumarate delayed-release capsules compared with placebo. Four percent (4%) of patients treated with dimethyl fumarate delayed-release

capsules and less than 1% of placebo patients discontinued due to gastrointestinal events. The incidence of serious GI events was 1% in clinical trial patients treated with dimethyl fumarate delayed-release capsules; these events, none of which were fatal, included vomiting (0.3%) and abdominal pain (0.3%).

Hepatic Transaminases

An increased incidence of elevations of hepatic transaminases in patients treated with dimethyl fumarate delayed-release capsules was seen primarily during the first six months of treatment, and most patients with elevations had levels < 3 times the upper limit of normal (ULN) during controlled trials.

Elevations of alanine aminotransferase and aspartate aminotransferase to ≥ 3 times the ULN occurred in a small number of patients treated with both dimethyl fumarate delayed-release capsules and placebo and were balanced between groups. There were no elevations in transaminases ≥ 3 times the ULN with concomitant elevations in total bilirubin > 2 times the ULN. Discontinuations due to elevated hepatic transaminases were < 1% and were similar in patients treated with dimethyl fumarate delayed-release capsules or placebo.

Eosinophilia

A transient increase in mean eosinophil counts was seen during the first 2 months of therapy.

6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of dimethyl fumarate delayed-release capsules. 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. Gastrointestinal Disorders: Acute Pancreatitis; Gastrointestinal perforation, ulceration, obstruction, and hemorrhage [see Warnings and Precautions (5.7)] Hepatobiliary Disorders: Liver function abnormalities (elevations in transaminases \geq 3 times ULN with concomitant elevations in total bilirubin > 2 times ULN) [see Warnings and Precautions (5.5)]

Infections and Infestations: Herpes zoster infection and other serious opportunistic infections [see Warnings and Precautions (5.3)]

Respiratory, Thoracic, and Mediastinal Disorders: Rhinorrhea

Skin and Subcutaneous: Alopecia

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Available data from the dimethyl fumarate Pregnancy Registry, observational studies, and pharmacovigilance with dimethyl fumarate use in pregnant women have not indicated an increased risk of major birth defects, miscarriage, or other adverse maternal or fetal outcomes. Most of the reported exposures to dimethyl fumarate occurred during the first trimester of pregnancy (see Data). In animals, adverse effects on offspring survival, growth, sexual maturation, and neurobehavioral function were observed when dimethyl fumarate (DMF) was administered during pregnancy and

lactation at clinically relevant doses (see Data).

The background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Data

Human Data

In a prospective observational dimethyl fumarate Pregnancy Registry (2013-2022), the rate of major birth defects among 362 live births and stillbirths from women who were exposed to dimethyl fumarate during pregnancy was 3.6% (95% CI: 1.9 to 6.1). No specific pattern of major birth defects was identified. Important potential study limitations include exposure misclassification, no adjustment for confounders, and lack of an internal comparator cohort.

Animal Data

In rats administered DMF orally (25, 100, 250 mg/kg/day) throughout organogenesis, embryofetal toxicity (reduced fetal body weight and delayed ossification) were observed at the highest dose tested. This dose also produced evidence of maternal toxicity (reduced body weight). Plasma exposure (AUC) for monomethyl fumarate (MMF), the major circulating metabolite, at the no-effect dose is approximately three times that in humans at the recommended human dose (RHD) of 480 mg/day. In rabbits administered DMF orally (25, 75, and 150 mg/kg/day) throughout organogenesis, embryolethality and decreased maternal body weight were observed at the highest dose tested. The plasma AUC for MMF at the no-effect dose is approximately 5 times that in humans at the RHD.

Oral administration of DMF (25, 100, and 250 mg/kg/day) to rats throughout organogenesis and lactation resulted in increased lethality, persistent reductions in body weight, delayed sexual maturation (male and female pups), and reduced testicular weight at the highest dose tested. Neurobehavioral impairment was observed at all doses. A no-effect dose for developmental toxicity was not identified. The lowest dose tested was associated with plasma AUC for MMF lower than that in humans at the RHD.

8.2 Lactation

Risk Summary

There are no data on the presence of DMF or MMF in human milk. The effects on the breastfed infant and on milk production are unknown.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for dimethyl fumarate delayed-release capsules and any potential adverse effects on the breastfed infant from the drug or from the underlying maternal condition.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

8.5 Geriatric Use

Clinical studies of dimethyl fumarate delayed-release capsules did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients.

10 OVERDOSE

Cases of overdose with dimethyl fumarate delayed-release capsules have been reported. The symptoms described in these cases were consistent with the known adverse event profile of dimethyl fumarate delayed-release capsules.

There are no known therapeutic interventions to enhance elimination of dimethyl fumarate nor is there a known antidote. In the event of overdose, initiate symptomatic supportive treatment as clinically indicated.

11 DESCRIPTION

Dimethyl fumarate delayed-release capsules, USP contain dimethyl fumarate which is also known by its chemical name, dimethyl (E) butenedioate, (C $_6$ H $_8$ O $_4$). It has the following structure:

Dimethyl fumarate, USP is a white to off-white crystalline powder that is soluble in methanol and slightly soluble in water with a molecular mass of 144.13. Dimethyl fumarate is provided as hard gelatin delayed-release capsules for oral administration, containing 240 mg of dimethyl fumarate, USP consisting of the following inactive ingredients: calcium silicate, colloidal silicon dioxide, croscarmellose sodium, gelatin, magnesium stearate, methacrylic acid and ethyl acrylate copolymer, methacrylic acid and methyl methacrylate copolymer, poloxamer, polysorbate 80, silicified microcrystalline cellulose, sodium bicarbonate, sodium lauryl sulfate, talc, titanium dioxide and triethyl citrate.

The imprinting ink contains the following inactive ingredients: black iron oxide, potassium hydroxide, propylene glycol, shellac and strong ammonia solution.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism by which dimethyl fumarate (DMF) exerts its therapeutic effect in multiple sclerosis is unknown. DMF and the metabolite, monomethyl fumarate (MMF), have been shown to activate the Nuclear factor (erythroid-derived 2)-like 2 (Nrf2) pathway in vitroand in vivoin animals and humans. The Nrf2 pathway is involved in the cellular response to oxidative stress. MMF has been identified as a nicotinic acid receptor agonist in vitro.

12.2 Pharmacodynamics

Potential to prolong the QT interval

In a placebo controlled thorough QT study performed in healthy subjects, there was no evidence that dimethyl fumarate caused QT interval prolongation of clinical significance (i.e., the upper bound of the 90% confidence interval for the largest placebo-adjusted, baseline-corrected OTc was below 10 ms).

12.3 Pharmacokinetics

After oral administration of dimethyl fumarate delayed-release capsules, dimethyl fumarate undergoes rapid presystemic hydrolysis by esterases and is converted to its active metabolite, monomethyl fumarate (MMF). Dimethyl fumarate is not quantifiable in plasma following oral administration of dimethyl fumarate delayed-release capsules. Therefore all pharmacokinetic analyses related to dimethyl fumarate delayed-release capsules were performed with plasma MMF concentrations. Pharmacokinetic data were obtained in subjects with multiple sclerosis and healthy volunteers.

<u>Absorption</u>

The median T $_{\rm max}$ of MMF is 2 to 2.5 hours. The peak plasma concentration (C $_{\rm max}$) and overall exposure (AUC) increased approximately dose proportionally in the dose range studied (120 mg to 360 mg). Following administration of dimethyl fumarate delayed-release capsules 240 mg twice a day with food, the mean C $_{\rm max}$ of MMF was 1.87 mg/L and AUC was 8.21 mg.hr/L in MS patients.

A high-fat, high-calorie meal did not affect the AUC of MMF but decreased its C $_{\rm max}$ by 40%. The T $_{\rm max}$ was delayed from 2.0 hours to 5.5 hours. In this study, the incidence of flushing was reduced by approximately 25% in the fed state.

Distribution

The apparent volume of distribution of MMF varies between 53 and 73 L in healthy subjects. Human plasma protein binding of MMF is 27 to 45% and independent of concentration.

Metabolism

In humans, dimethyl fumarate is extensively metabolized by esterases, which are ubiquitous in the gastrointestinal tract, blood, and tissues, before it reaches the systemic circulation. Further metabolism of MMF occurs through the tricarboxylic acid (TCA) cycle, with no involvement of the cytochrome P450 (CYP) system. MMF, fumaric and citric acid, and glucose are the major metabolites in plasma.

Elimination

Exhalation of CO $_2$ is the primary route of elimination, accounting for approximately 60% of the dimethyl fumarate delayed-release capsules dose. Renal and fecal elimination are

minor routes of elimination, accounting for 16% and 1% of the dose respectively. Trace amounts of unchanged MMF were present in urine.

The terminal half-life of MMF is approximately 1 hour and no circulating MMF is present at 24 hours in the majority of individuals. Accumulation of MMF does not occur with multiple doses of dimethyl fumarate delayed-release capsules.

Specific Populations

Body weight, gender, and age do not require dosage adjustment.

No studies have been conducted in subjects with hepatic or renal impairment. However, neither condition would be expected to affect exposure to MMF and therefore no dosage adjustment is necessary.

Drug Interaction Studies

No potential drug interactions with dimethyl fumarate or MMF were identified in *in vitro*CYP inhibition and induction studies, or in P-glycoprotein studies. Single doses of interferon beta-1a or glatiramer acetate did not alter the pharmacokinetics of MMF. Aspirin, when administered approximately 30 minutes before dimethyl fumarate delayed-release capsules, did not alter the pharmacokinetics of MMF.

Oral Contraceptives

The coadministration of dimethyl fumarate with a combined oral contraceptive (norelgestromin and ethinyl estradiol) did not elicit any relevant effects in oral contraceptives exposure. No interaction studies have been performed with oral contraceptives containing other progestogens.

Vaccines

A randomized, open-label study examined the concomitant use of dimethyl fumarate delayed-release capsules and several non-live vaccines in adults 27 to 55 years of age with relapsing forms of MS (38 subjects undergoing treatment with dimethyl fumarate delayed-release capsules at the time of vaccination and 33 subjects undergoing treatment with non-pegylated interferon at the time of vaccination). Concomitant exposure to dimethyl fumarate delayed-release capsules did not attenuate antibody responses to tetanus toxoid-containing vaccine, pneumococcal polysaccharide, and meningococcal vaccines relative to antibody responses in interferon-treated patients. The impact of these findings on vaccine effectiveness in this patient population is unknown. The safety and effectiveness of live or live-attenuated vaccines administered concomitantly with dimethyl fumarate delayed-release capsules have not been assessed.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Carcinogenicity studies of dimethyl fumarate (DMF) were conducted in mice and rats. In mice, oral administration of DMF (25, 75, 200, and 400 mg/kg/day) for up to two years resulted in an increase in nonglandular stomach (forestomach) and kidney tumors: squamous cell carcinomas and papillomas of the forestomach in males and females at 200 and 400 mg/kg/day; leiomyosarcomas of the forestomach at 400 mg/kg/day in males and females; renal tubular adenomas and carcinomas at 200 and 400 mg/kg/day in males; and renal tubule adenomas at 400 mg/kg/day in females. Plasma MMF exposure (AUC) at the highest dose not associated with tumors in mice (75 mg/kg/day) was similar to that in humans at the recommended human dose (RHD) of 480 mg/day.

In rats, oral administration of DMF (25, 50, 100, and 150 mg/kg/day) for up to two years resulted in increases in squamous cell carcinomas and papillomas of the forestomach at all doses tested in males and females, and in testicular interstitial (Leydig) cell adenomas at 100 and 150 mg/kg/day. Plasma MMF AUC at the lowest dose tested was lower than that in humans at the RHD.

<u>Mutagenesis</u>

Dimethyl fumarate (DMF) and monomethyl fumarate (MMF) were not mutagenic in the *in vitro*bacterial reverse mutation (Ames) assay. DMF and MMF were clastogenic in the *in vitro*chromosomal aberration assay in human peripheral blood lymphocytes in the absence of metabolic activation. DMF was not clastogenic in the *in vivo*micronucleus assay in the rat.

Impairment of Fertility

In male rats, oral administration of DMF (75, 250, and 375 mg/kg/day) prior to and throughout the mating period had no effect on fertility; however, increases in non-motile sperm were observed at the mid and high doses. The no-effect dose for adverse effects on sperm is similar to the recommended human dose (RHD) of 480 mg/day on a body surface area (mg/m 2) basis.

In female rats, oral administration of DMF (20, 100, and 250 mg/kg/day) prior to and during mating and continuing to gestation day 7 caused disruption of the estrous cycle and increases in embryolethality at the highest dose tested. The highest dose not associated with adverse effects (100 mg/kg/day) is twice the RHD on a mg/m ²basis. Testicular toxicity (germinal epithelial degeneration, atrophy, hypospermia, and/or hyperplasia) was observed at clinically relevant doses in mice, rats, and dogs in subchronic and chronic oral toxicity studies of DMF, and in a chronic oral toxicity study evaluating a combination of four fumaric acid esters (including DMF) in rats.

13.2 Animal Toxicology and/or Pharmacology

Kidney toxicity was observed after repeated oral administration of dimethyl fumarate (DMF) in mice, rats, dogs, and monkeys. Renal tubule epithelia regeneration, suggestive of tubule epithelial injury, was observed in all species. Renal tubular hyperplasia was observed in rats with dosing for up to two years. Cortical atrophy and interstitial fibrosis were observed in dogs and monkeys at doses above 5 mg/kg/day. In monkeys, the highest dose tested (75 mg/kg/day) was associated with single cell necrosis and multifocal and diffuse interstitial fibrosis, indicating irreversible loss of renal tissue and function. In dogs and monkeys, the 5 mg/kg/day dose was associated with plasma MMF exposures less than or similar to that in humans at the recommended human dose (RHD).

A dose-related increase in incidence and severity of retinal degeneration was observed in mice following oral administration of DMF for up to two years at doses above 75 mg/kg/day, a dose associated with plasma MMF exposure (AUC) similar to that in humans at the RHD.

14 CLINICAL STUDIES

The efficacy and safety of dimethyl fumarate delayed-release capsules were demonstrated in two studies (Studies 1 and 2) that evaluated dimethyl fumarate

delayed-release capsules taken either twice or three times a day in patients with relapsing-remitting multiple sclerosis (RRMS). The starting dose for dimethyl fumarate delayed-release capsules was 120 mg twice or three times a day for the first 7 days, followed by an increase to 240 mg twice or three times a day. Both studies included patients who had experienced at least 1 relapse over the year preceding the trial or had a brain Magnetic Resonance Imaging (MRI) scan demonstrating at least one gadolinium-enhancing (Gd+) lesion within 6 weeks of randomization. The Expanded Disability Status Scale (EDSS) was also assessed and patients could have scores ranging from 0 to 5. Neurological evaluations were performed at baseline, every 3 months, and at the time of suspected relapse. MRI evaluations were performed at baseline, month 6, and year 1 and 2 in a subset of patients (44% in Study 1 and 48% in Study 2).

Study 1: Placebo-Controlled Trial in RRMS

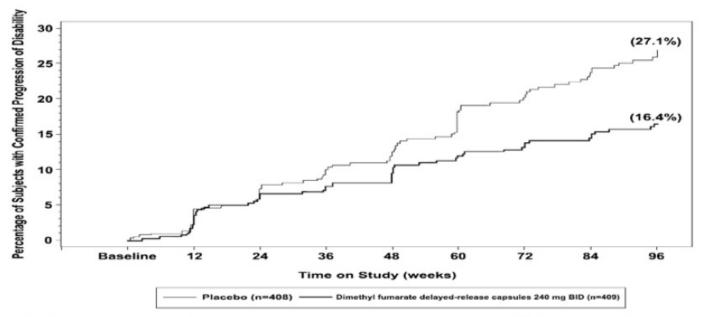
Study 1 was a 2-year randomized, double-blind, placebo-controlled study in 1234 patients with RRMS. The primary endpoint was the proportion of patients relapsed at 2 years. Additional endpoints at 2 years included the number of new or newly enlarging T2 hyperintense lesions, number of new T1 hypointense lesions, number of Gd+ lesions, annualized relapse rate (ARR), and time to confirmed disability progression. Confirmed disability progression was defined as at least a 1 point increase from baseline EDSS (1.5 point increase for patients with baseline EDSS of 0) sustained for 12 weeks. Patients were randomized to receive dimethyl fumarate delayed-release capsules 240 mg twice a day (n=410), dimethyl fumarate delayed-release capsules 240 mg three times a day (n=416), or placebo (n=408) for up to 2 years. The median age was 39 years, median time since diagnosis was 4 years, and median EDSS score at baseline was 2. The median time on study drug for all treatment arms was 96 weeks. The percentages of patients who completed 96 weeks on study drug per treatment group were 69% for patients assigned to dimethyl fumarate delayed-release capsules 240 mg twice a day, 69% for patients assigned to dimethyl fumarate delayed-release capsules 240 mg three times a day and 65% for patients assigned to placebo groups. Dimethyl fumarate delayed-release capsules had a statistically significant effect on all of the endpoints described above and the 240 mg three times daily dose showed no additional benefit over the dimethyl fumarate delayed-release capsules 240 mg twice daily dose. The results for this study (240 mg twice a day vs. placebo) are shown in Table 2 and Figure 1.

Table 2: Clinical and MRI Results of Study 1

	Dimethyl Fumarate Delayed- ReleaseCapsules 240 mg BID	Placebo	P-value
Clinical Endpoints	N=410	N=408	
Proportion relapsing (primary	27%	46%	< 0.0001
endpoint) Relative risk reduction	49%		
Annualized relapse rate	0.172	0.364	< 0.0001
Relative reduction	53%		
Proportion with disability progression	16%	27%	0.0050
Relative risk reduction	38%		
MRI Endpoints	N=152	N=165	

Mean number of new or newly	2.6	17	< 0.0001
enlarging T2 lesions over 2 years			
Percentage of subjects with no new	45%	27%	
or newly enlarging lesions			
Number of Gd+ lesions at 2 years	0.1 (0)	1.8 (0)	
Mean (median)			
Percentage of subjects with			
0 lesions	93%	62%	
1 lesion	5%	10%	
2 lesions	<1%	8%	
3 to 4 lesions	0	9%	
5 or more lesions	<1%	11%	
Relative odds reduction (percentage)	90%		< 0.0001
Mean number of new T1 hypointense	1.5	5.6	<0.0001
lesions over 2 years			

Figure 1: Time to 12-Week Confirmed Progression of Disability (Study 1)



NOTE: Confirmed progression of disability is defined as at least 1.0 point increase on the EDSS from a baseline EDSS >= 1.0 confirmed for 12 weeks or at least 1.5 point increase on the EDSS from a baseline EDSS of 0 confirmed for 12 weeks.

Study 2: Placebo-Controlled Trial in RRMS

Study 2 was a 2-year multicenter, randomized, double-blind, placebo-controlled study that also included an open-label comparator arm in patients with RRMS. The primary endpoint was the annualized relapse rate at 2 years. Additional endpoints at 2 years included the number of new or newly enlarging T2 hyperintense lesions, number of T1 hypointense lesions, number of Gd+ lesions, proportion of patients relapsed, and time to confirmed disability progression as defined in Study 1.

Patients were randomized to receive dimethyl fumarate delayed-release capsules 240 mg twice a day (n=359), dimethyl fumarate delayed-release capsules 240 mg three times a day (n=345), an open-label comparator (n=350), or placebo (n=363) for up to 2

years. The median age was 37 years, median time since diagnosis was 3 years, and median EDSS score at baseline was 2.5. The median time on study drug for all treatment arms was 96 weeks. The percentages of patients who completed 96 weeks on study drug per treatment group were 70% for patients assigned to dimethyl fumarate delayed-release capsules 240 mg twice a day, 72% for patients assigned to dimethyl fumarate delayed-release capsules 240 mg three times a day and 64% for patients assigned to placebo groups.

Dimethyl fumarate delayed-release capsules had a statistically significant effect on the relapse and MRI endpoints described above. There was no statistically significant effect on disability progression. The dimethyl fumarate delayed-release capsules 240 mg three times daily dose resulted in no additional benefit over the dimethyl fumarate delayed-release capsules 240 mg twice daily dose. The results for this study (240 mg twice a day vs. placebo) are shown in Table 3.

Table 3: Clinical and MRI Results of Study 2

	Dimethyl Fumarate Delayed- ReleaseCapsules		
	240 mg BID	Placebo	P-value
Clinical Endpoints	N=359	N=363	
Annualized relapse rate	0.224	0.401	< 0.0001
Relative reduction	44%		
Proportion relapsing	29%	41%	0.0020
Relative risk reduction	34%		
Proportion with disability	13%	17%	0.25
progression	21%		
Relative risk reduction	2170		
MRI Endpoints	N=147	N=144	
Mean number of new or newly	5.1	17.4	< 0.0001
enlarging T2 lesions over 2			
years	27%	12%	
Percentage of subjects with no			
new or newly enlarging lesions			
Number of Gd+ lesions at 2			
years	0.5 (0.0)	2.0 (0.0)	
Mean (median)	0.5 (0.0)	2.0 (0.0)	
Percentage of subjects			
with			
0 lesions	80%	61%	
1 lesion	11%	17%	
2 lesions	3%	6%	
3 to 4 lesions	3%	2%	
5 or more lesions	3%	14%	
Relative odds reduction (percentage)	74%		<0.0001
Mean number of new T1	3.0	7.0	< 0.0001
hypointense lesions over 2 years			

16 HOW SUPPLIED/STORAGE AND HANDLING

The 240 mg capsules are white opaque size '0el' hard gelatin capsules imprinted with 'H' on cap and 'D15' on body filled with white to off white tablets. They are available as follows:

240 mg capsules: 30-day bottle of 60 capsules

NDC 82009-138-60

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect the capsules from light. Store in original container.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information). <u>Dosage</u>

Inform patients that they will be provided two strengths of dimethyl fumarate delayed-release capsules when starting treatment: 120 mg capsules for the 7-day starter dose and 240 mg capsules for the maintenance dose, both to be taken twice daily. Inform patients to swallow dimethyl fumarate delayed-release capsules whole and intact. Inform patients to not crush, chew, or sprinkle capsule contents on food. Inform patients that dimethyl fumarate delayed-release capsules can be taken with or without food [see Dosage and Administration (2.1)].

Anaphylaxis and Angioedema

Advise patients to discontinue dimethyl fumarate delayed-release capsules and seek medical care if they develop signs and symptoms of anaphylaxis or angioedema [see Warnings and Precautions (5.1)].

Progressive Multifocal Leukoencephalopathy

Inform patients that progressive multifocal leukoencephalopathy (PML) has occurred in patients who received dimethyl fumarate delayed-release capsules. Inform the patient that PML is characterized by a progression of deficits and usually leads to death or severe disability over weeks or months. Instruct the patient of the importance of contacting their doctor if they develop any symptoms suggestive of PML. Inform the patient that typical symptoms associated with PML are diverse, progress over days to weeks, and include progressive weakness on one side of the body or clumsiness of limbs, disturbance of vision, and changes in thinking, memory, and orientation leading to confusion and personality changes [see Warnings and Precautions (5.2)].

Herpes Zoster and Other Serious Opportunistic Infections

Inform patients that herpes zoster and other serious opportunistic infections have occurred in patients who received dimethyl fumarate delayed-release capsules. Instruct the patient of the importance of contacting their doctor if they develop any signs or symptoms associated with herpes zoster or other serious opportunistic infections [see Warnings and Precautions (5.3)].

<u>Lymphocyte Counts</u>

Inform patients that dimethyl fumarate delayed-release capsules may decrease lymphocyte counts. A blood test should be obtained before they start therapy. Blood tests are also recommended after 6 months of treatment, every 6 to 12 months thereafter, and as clinically indicated [see Warnings and Precautions (5.4), Adverse

Reactions (6.1)].

Liver Injury

Inform patients that dimethyl fumarate delayed-release capsules may cause liver injury. Instruct patients treated with dimethyl fumarate delayed-release capsules to report promptly any symptoms that may indicate liver injury, including fatigue, anorexia, right upper abdominal discomfort, dark urine, or jaundice. A blood test should be obtained before patients start therapy and during treatment, as clinically indicated [see Warnings and Precautions (5.5)].

<u>Flushing</u>

Inform patients that flushing is one of the most common reactions, especially at the initiation of therapy, and may decrease over time. Advise patients to contact their healthcare provider if they experience persistent and/or severe flushing. Advise patients experiencing flushing that taking dimethyl fumarate delayed-release capsules with food or taking a non-enteric coated aspirin prior to taking dimethyl fumarate delayed-release capsules may help [see Adverse Reactions (6.1)].

Gastrointestinal (GI) Events

Inform patients that GI events (abdominal pain, diarrhea, and nausea) are some of the most common adverse reactions, especially at the initiation of therapy, and may decrease over time. Some patients may experience more severe GI events. Advise patients to immediately contact their healthcare provider and discontinue dimethyl fumarate delayed-release capsules if they experience gastrointestinal bleeding (e.g., rectal bleeding, bloody diarrhea, hematemesis) or other serious gastrointestinal adverse events (e.g., severe abdominal pain, severe vomiting and/or diarrhea) [see Warnings and Precautions (5.7)].

Manufactured for:

Quallent Pharmaceuticals Health LLC, Grand Cayman, Cayman Islands.

by: **HETERO** TM
Hetero Labs Limited,
Jeedimetla, Hyderabad - 500 055, India.

Revised: 10/2025

Patient Information

Dimethyl Fumarate(dye meth il FYOO ma rate)

Delayed-Release Capsules, USP

What are dimethyl fumarate delayed-releasecapsules?

- Dimethyl fumarate delayed-release capsules are a prescription medicine used to treat relapsing forms of multiple sclerosis (MS), to include clinically isolated syndrome, relapsing-remitting disease, and active secondary progressive disease, in adults.
- It is not known if dimethyl fumarate delayed-release capsules are safe and effective in children under 18 years of age

Who should not take dimethyl fumarate delayed-releasecapsules?

 Do not use dimethyl fumarate delayed-release capsules if you have had an allergic reaction (such as welts, hives, swelling of the face, lips, mouth or tongue, or difficulty breathing) to dimethyl fumarate delayed-release capsules or any of its ingredients.
 See below for a complete list of ingredients.

Before taking and while you take dimethyl fumarate delayed-releasecapsules, tell your doctor if you have or have had:

- low white blood cell counts or an infection
- any other medical conditions

Tell your doctor if you are:

- pregnant or plan to become pregnant. It is not known if dimethyl fumarate delayedrelease capsules will harm your unborn baby. You and your doctor will have to decide if you should take dimethyl fumarate delayed-release capsules while you are pregnant or if you plan to become pregnant.
- breastfeeding or plan to breastfeed. It is not known if dimethyl fumarate passes into your breast milk. You and your doctor should decide if you will take dimethyl

fumarate delayed-release capsules or breastfeed.

• taking prescription or over-the-counter medicines, vitamins, or herbal supplements

How should I take dimethyl fumarate delayed-releasecapsules?

- Take dimethyl fumarate delayed-release capsules exactly as your doctor tells you to take them
- The recommended starting dose is one 120 mg capsule taken by mouth 2 times a day for 7 days
- The recommended dose after 7 days is one 240 mg capsule taken by mouth 2 times a day
- Dimethyl fumarate delayed-release capsules can be taken with or without food
- Swallow dimethyl fumarate delayed-release capsules whole. Do not crush, chew, or sprinkle capsule contents on food.
- Protect dimethyl fumarate delayed-release capsules from light. You can do this by storing the capsules in their original container.
- If you take too much dimethyl fumarate, call your doctor or go to the nearest hospital emergency room right away.

What are the possible side effects of dimethyl fumarate delayedreleasecapsules?

Dimethyl fumarate delayed-releasecapsules may cause serious side effects including:

- allergic reaction(such as welts, hives, swelling of the face, lips, mouth or tongue, or difficulty breathing)
- PMLa rare brain infection that usually leads to death or severe disability
- decreases in your white blood cell countYour doctor should do a blood test before you start treatment with dimethyl fumarate delayed-release capsules and while on therapy.
- liver problems. Your doctor should do blood tests to check your liver function before you start taking dimethyl fumarate delayed-release capsules and during treatment if needed. Tell your doctor right away if you get any of these symptoms of a liver problem during treatment.
 - severe tiredness
 - loss of appetite
 - pain on the right side of your stomach
 - · have dark or brown (tea color) urine
 - yellowing of your skin or the white part of your eyes
- herpes zoster infections (shingles), including central nervous system infections
- other serious infections
- **serious gastrointestinal problems,** including bleeding, ulcers, blockage, and tears (perforation) of the stomach or intestines. Tell your healthcare provider right away if

you have any of these symptoms during treatment:

- Stomach-area pain that does not go away
- Bright red or black stools (that look like tar)
- Severe vomiting
- Severe diarrhea
- Coughing up blood or blood clots
- Vomiting blood or your vomit looks like "coffee grounds"

The most common side effects of dimethyl fumarate delayedreleasecapsules include:

- flushing, redness, itching, or rash
- nausea, vomiting, diarrhea, stomach pain, or indigestion. These events can be serious in some patients (see "dimethyl fumarate delayed-release capsules may cause serious side effects including," above).
- Flushing and stomach problems are the most common reactions, especially at the start of therapy, and may decrease over time. Taking dimethyl fumarate delayedrelease capsules with food may help reduce flushing. Call your doctor if you have any of these symptoms and they bother you or do not go away. Ask your doctor if taking aspirin before taking dimethyl fumarate delayed-release capsules may reduce flushing.

These are not all the possible side effects of dimethyl fumarate delayed-release capsules. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

For more information go to dailymed.nlm.nih.gov.

General Information about the safe and effective use of dimethyl fumarate delayed-releasecapsules

- Medicines are sometimes prescribed for purposes other than those listed in this
 Patient Information. Do not use dimethyl fumarate delayed-release capsules for a
 condition for which it was not prescribed. Do not give dimethyl fumarate delayedrelease capsules to other people, even if they have the same symptoms that you
 have. They may harm them.
- If you would like more information, talk to your doctor or pharmacist. You can ask your doctor or pharmacist for information about dimethyl fumarate delayed-release capsules that is written for healthcare professionals.

What are the ingredients in dimethyl fumarate delayed-release capsules? Active ingredient: dimethyl fumarate

Inactive ingredients: calcium silicate, colloidal silicon dioxide, croscarmellose sodium, gelatin, magnesium stearate, methacrylic acid and ethyl acrylate copolymer, methacrylic acid and methyl methacrylate copolymer, poloxamer, polysorbate 80, silicified

microcrystalline cellulose, sodium bicarbonate, sodium lauryl sulfate, talc, titanium dioxide and triethyl citrate.

The imprinting ink contains the following inactive ingredients: black iron oxide, potassium hydroxide, propylene glycol, shellac and strong ammonia solution.

Manufactured for:

Quallent Pharmaceuticals Health LLC,

Grand Cayman, Cayman Islands.

bv: **HETERO** TM

Hetero Labs Limited, Jeedimetla, Hyderabad - 500 055, India.

For more information, call Quallent Pharmaceuticals at 1-877-605-7243.

This Patient Information has been approved by the U.S. Food and Drug Administration. Revised: 10/2025

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

Dimethyl Fumarate Delayed-Release Capsules - 240 mg (60 capsules container)



Dimethyl Fumarate Delayed-Release Capsules - 240 mg (60 capsules carton)



DIMETHYL FUMARATE

dimethyl fumarate capsule, delayed release

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:82009-138	
Route of Administration ORAL				
Active Ingredient/Active Moiety				
Ing	redient Name	Basis Streng	STEANATA	

DIMETHYL FUMARATE (UNII: FO2303MNI2) (MONOMETHYL FUMARATE -	DIMETHYL FUMARATE	240 mg
UNII:45IUB1PX8R)	DIMETTIETOMANATE	240 mg

Inactive Ingredients	
Ingredient Name	Strength
CALCIUM SILICATE (UNII: S4255P4G5M)	
CROSCARMELLOSE SODIUM (UNII: M280L1HH48)	
GELATIN (UNII: 2G86QN327L)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
METHACRYLIC ACID - METHYL METHACRYLATE COPOLYMER (1:1) (UNII: 74G4R6TH13)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
SODIUM BICARBONATE (UNII: 8MDF5V39QO)	
SODIUM LAURYL SULFATE (UNII: 368GB5141J)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TRIETHYL CITRATE (UNII: 8Z96QXD6UM)	
FERROSOFERRIC OXIDE (UNII: XM0M87F357)	
POTASSIUM HYDROXIDE (UNII: WZ H3C48M4T)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
SHELLAC (UNII: MB5IUD6JUA)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
AMMONIA (UNII: 5138Q19F1X)	
POLOXAMER 407 (UNII: TUF2IVW3M2)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	

Product Characteristics			
Color	white (white opaque)	Score	no score
Shape	CAPSULE	Size	23mm
Flavor		Imprint Code	H;D15
Contains			

F	Packaging				
#	tem Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:82009-138- 60	1 in 1 CARTON	06/15/2024		
1		60 in 1 BOTTLE; Type 0: Not a Combination Product			

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA210500	06/15/2024	

Labeler - Quallent Pharmaceuticals Health LLC (815564528)

Establishment					
Name	Address	ID/FEI	Business Operations		
Hetero Labs Limited Unit III		676162024	manufacture(82009-138)		

Revised: 10/2025 Quallent Pharmaceuticals Health LLC