

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

213138Orig1s000

LABELING

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DIFICID safely and effectively. See full prescribing information for DIFICID.

DIFICID® (fidaxomicin) tablets, for oral use

DIFICID® (fidaxomicin) for oral suspension

Initial U.S. Approval: 2011

RECENT MAJOR CHANGES

Indications and Usage, <i>Clostridioides difficile</i> -Associated Diarrhea (1.1)	1/2020
Indications and Usage, Usage (1.2)	3/2019
Dosage and Administration (2)	1/2020
Contraindications (4)	3/2019
Warnings and Precautions, Hypersensitivity Reactions (5.1)	1/2020
Warnings and Precautions, Not for Use in Infections Other than <i>C. difficile</i> -Associated Diarrhea (5.2)	1/2020

INDICATIONS AND USAGE

DIFICID is a macrolide antibacterial indicated in adult and pediatric patients 6 months of age and older for the treatment of *C. difficile*-associated diarrhea. (1.1)

To reduce the development of drug-resistant bacteria and maintain the effectiveness of DIFICID and other antibacterial drugs, DIFICID should be used only to treat infections that are proven or strongly suspected to be caused by *C. difficile*. (1.2)

DOSAGE AND ADMINISTRATION

- DIFICID is administered orally with or without food. (2.1)
- Adults
 - One 200 mg tablet orally twice daily for 10 days. (2.2)
- Pediatrics (6 Months to Less than 18 Years of Age)
- Tablets
 - Pediatric patients weighing at least 12.5 kg and able to swallow tablets: One 200 mg tablet orally twice daily for 10 days. (2.3)
- Oral Suspension
 - Pediatric patients weighing at least 4 kg: Weight-based dosing of the oral suspension twice daily for 10 days using an oral dosing syringe, as specified in Table 1 in the full prescribing information. (2.3)

- For instructions on preparation and administration of DIFICID oral suspension, see full prescribing information. (2.4)

DOSAGE FORMS AND STRENGTHS

- Film-coated tablets: 200 mg (3)
- For oral suspension: 40 mg/mL (200 mg/5 mL) when reconstituted (3)

CONTRAINDICATIONS

DIFICID is contraindicated in patients who have known hypersensitivity to fidaxomicin or any other ingredient in DIFICID. (4)

WARNINGS AND PRECAUTIONS

- Acute hypersensitivity reactions (angioedema, dyspnea, pruritus, and rash) have been reported. If a severe hypersensitivity reaction occurs, discontinue DIFICID. (5.1)
- DIFICID is not expected to be effective for the treatment of other types of infections due to minimal systemic absorption of fidaxomicin. DIFICID should only be used for the treatment of *C. difficile*-associated diarrhea. (5.2)
- Development of drug-resistant bacteria: Only use DIFICID for infection proven or strongly suspected to be caused by *C. difficile*. (5.3)

ADVERSE REACTIONS

The most common adverse reactions in adults (incidence $\geq 2\%$) are nausea, vomiting, abdominal pain, gastrointestinal hemorrhage, anemia, and neutropenia. (6)

The most common adverse reactions in pediatric patients (incidence $\geq 5\%$) treated with DIFICID are pyrexia, abdominal pain, vomiting, diarrhea, constipation, increased aminotransferases, and rash. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Merck Sharp & Dohme Corp., a subsidiary of Merck & Co., Inc., at 1-877-888-4231 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

USE IN SPECIFIC POPULATIONS

Pediatrics: The safety and effectiveness of DIFICID have not been established in pediatric patients younger than 6 months of age. (8.4)

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

Revised: 1/2020

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 *Clostridioides difficile*-Associated Diarrhea

DIFICID[®] is indicated in adult and pediatric patients aged 6 months and older for the treatment of *C. difficile*-associated diarrhea (CDAD).

1.2 Usage

To reduce the development of drug-resistant bacteria and maintain the effectiveness of DIFICID and other antibacterial drugs, DIFICID should be used only to treat infections that are proven or strongly suspected to be caused by *C. difficile*. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

2 DOSAGE AND ADMINISTRATION

2.1 Important Administration Instructions

DIFICID is available for oral administration as 200 mg tablets and as granules for oral suspension (40 mg/mL (200 mg/5 mL) when reconstituted). DIFICID is administered orally with or without food.

2.2 Adult Patients

The recommended dosage for adults is one 200 mg DIFICID tablet orally twice daily for 10 days.

2.3 Pediatric Patients (6 Months to Less than 18 Years of Age)

Tablets

The recommended dosage for pediatric patients weighing at least 12.5 kg and able to swallow tablets is one 200 mg DIFICID tablet administered orally twice daily for 10 days. If unable to swallow tablets, pediatric patients may be dosed with DIFICID oral suspension as recommended in Table 1 below.

Oral Suspension

The recommended dosage for pediatric patients based on weight are shown in Table 1. Administer DIFICID oral suspension orally twice daily for 10 days using an oral dosing syringe [see *Dosage and Administration* (2.4)].

Table 1: Recommended Dosage of DIFICID Oral Suspension in Pediatric Patients, Based on Weight

Body Weight	Dose Administered Twice Daily	Volume of 40 mg/mL Suspension to be Administered Orally Twice Daily
4 kg to less than 7 kg	80 mg	2 mL
7 kg to less than 9 kg	120 mg	3 mL
9 kg to less than 12.5 kg	160 mg	4 mL
12.5 kg and above	200 mg	5 mL

2.4 Preparation and Administration of DIFICID Oral Suspension

Preparation

1. Shake the glass bottle to ensure the granules move around freely and no caking has occurred.
2. Measure 130 mL of purified water, add to the glass bottle, and cap tightly.
3. Hold bottle in a horizontal position and shake bottle vigorously in that position for at least 2 minutes.
4. Verify that a homogeneous suspension is obtained. If not, repeat the shaking step.
5. Once a homogeneous suspension is visually confirmed, shake an additional 30 seconds.
6. Let bottle stand for 1 minute.
7. Verify that the suspension is still homogeneous. If not, repeat steps 3 through 6.
8. Once reconstituted, DIFICID oral suspension is white to yellowish white in color.
9. Write discard date (current date plus 12 days) on the bottle [see *How Supplied/Storage and Handling* (16.1, 16.2)].

Storage of Reconstituted Oral Suspension

- Store the reconstituted oral suspension in a refrigerator [between 36°F-46°F (2°C-8°C)] for up to 12 days. Discard after 12 days.

Administration

1. Remove bottle from refrigerator 15 minutes prior to each administration.
2. Shake vigorously until suspension has an even consistency.
3. Remove cap, then administer orally with or without food using an oral dosing syringe.
4. Between doses, replace cap and store in a refrigerator.

3 DOSAGE FORMS AND STRENGTHS

DIFICID tablets

200 mg white to off-white film-coated, oblong tablets; each tablet is debossed with "FDX" on one side and "200" on the other side.

DIFICID for oral suspension

White to yellowish white granules; following reconstitution, each mL of white to yellowish white oral suspension contains 40 mg of fidaxomicin (200 mg of fidaxomicin per 5 mL).

4 CONTRAINDICATIONS

DIFICID is contraindicated in patients who have known hypersensitivity to fidaxomicin or any other ingredient in DIFICID [see *Warnings and Precautions* (5.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity Reactions

Acute hypersensitivity reactions, including dyspnea, rash, pruritus, and angioedema of the mouth, throat, and face have been reported with DIFICID. If a severe hypersensitivity reaction occurs, DIFICID should be discontinued and appropriate therapy should be instituted.

Some patients with hypersensitivity reactions to DIFICID also reported a history of allergy to other macrolides. Physicians prescribing DIFICID to patients with a known macrolide allergy should be aware of the possibility of hypersensitivity reactions.

5.2 Not for Use in Infections Other than *C. difficile*-Associated Diarrhea

DIFICID is not expected to be effective for the treatment of other types of infections due to minimal systemic absorption of fidaxomicin [see *Clinical Pharmacology* (12.3)]. DIFICID has not been studied for the treatment of infections other than CDAD. DIFICID should only be used for the treatment of CDAD.

5.3 Development of Drug-Resistant Bacteria

Prescribing DIFICID in the absence of proven or strongly suspected *C. difficile* infection is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the 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 practice.

Adults

The safety of DIFICID 200 mg tablets taken twice a day for 10 days was evaluated in 564 adult patients with CDAD in two active-controlled trials with 86.7% of patients receiving a full course of treatment.

Thirty-three adult patients receiving DIFICID (5.9%) withdrew from trials as a result of adverse reactions (AR). The types of AR resulting in withdrawal from the study varied considerably. Vomiting was the primary adverse reaction leading to discontinuation of dosing; this occurred at an incidence of 0.5% in both the DIFICID and vancomycin patients in Phase 3 trials. The most common selected adverse reactions occurring in $\geq 2\%$ of adult patients treated with DIFICID are listed in Table 2.

Table 2: Selected Adverse Reactions with an Incidence of $\geq 2\%$ Reported in DIFICID-Treated Adult Patients in Controlled Trials

System Organ Class	DIFICID (N=564)	Vancomycin (N=583)
Adverse Reaction	n (%)	n (%)
Blood and Lymphatic System Disorders		
Anemia	14 (2%)	12 (2%)
Neutropenia	14 (2%)	6 (1%)
Gastrointestinal Disorders		
Nausea	62 (11%)	66 (11%)
Vomiting	41 (7%)	37 (6%)
Abdominal Pain	33 (6%)	23 (4%)
Gastrointestinal Hemorrhage	20 (4%)	12 (2%)

The following adverse reactions were reported in $< 2\%$ of adult patients taking DIFICID tablets in controlled trials:

Gastrointestinal Disorders: abdominal distension, abdominal tenderness, dyspepsia, dysphagia, flatulence, intestinal obstruction, megacolon

Investigations: increased blood alkaline phosphatase, decreased blood bicarbonate, increased hepatic enzymes, decreased platelet count

Metabolism and Nutrition Disorders: hyperglycemia, metabolic acidosis

Skin and Subcutaneous Tissue Disorders: drug eruption, pruritus, rash

Pediatrics

The safety of DIFICID in pediatric patients 6 months to less than 18 years of age was evaluated in a Phase 2 single-arm trial in 38 patients and a Phase 3 randomized, active-controlled trial in 98 patients treated with DIFICID and 44 patients treated with vancomycin [see *Clinical Studies (14.2)*]. In both studies, patients received DIFICID orally twice daily for 10 days. Patients < 2 years of age, or weighing < 12.5 kg, or unable to swallow tablets received weight-based doses of DIFICID oral suspension. Patients weighing at least 12.5 kg and able to swallow tablets received the 200 mg DIFICID tablet. The age range in the Phase 2 trial was 11 months to 17 years and in the Phase 3 trial was 1 month to 17 years (one patient was less than 6 months of age).

One death occurred in the Phase 2 single-arm trial. In the Phase 3 trial, there were 3 deaths in DIFICID-treated patients and no deaths in vancomycin-treated patients during the study period (40 days). All deaths occurred in patients less than 2 years of age and appeared to be related to underlying comorbidities [see *Clinical Studies (14.2)*].

Treatment discontinuation due to adverse reactions occurred in 7.9% (3/38) of patients in the Phase 2 trial, and in 1% (1/98) and 2.3% (1/44) of DIFICID- and vancomycin-treated patients, respectively, in the Phase 3 trial. The most common selected adverse reactions occurring in $\geq 5\%$ of pediatric patients treated with DIFICID in the Phase 3 trial are listed in Table 3.

Table 3: Selected Adverse Reactions with an Incidence of $\geq 5\%$ Reported in DIFICID-Treated Pediatric Patients in the Controlled Trial

System Organ Class Adverse Reaction	DIFICID (N=98) n (%)	Vancomycin (N=44) n (%)
Gastrointestinal Disorders		
Abdominal pain*	8 (8.2)	9 (20.5)
Vomiting	7 (7.1)	6 (13.6)
Diarrhea	7 (7.1)	5 (11.4)
Constipation	5 (5.1)	1 (2.3)
General Disorders and Administration Site Conditions		
Pyrexia	13 (13.3)	10 (22.7)
Investigations		
Aminotransferases increased†	5 (5.1)	1 (2.3)
Skin and Subcutaneous Tissue Disorders		
Rash‡	5 (5.1)	1 (2.3)

* Includes abdominal pain, abdominal pain lower, and abdominal pain upper

† Includes alanine aminotransferase increased, aspartate aminotransferase increased, and hepatic enzyme increased

‡ Includes rash, rash follicular, rash maculo-papular, and exfoliative rash

The following adverse reactions were reported in $<5\%$ of pediatric patients taking DIFICID in clinical trials:

Skin and Subcutaneous Tissue Disorders: urticaria, pruritus

6.2 Post Marketing Experience

The following adverse reactions have been identified during post-approval use of DIFICID. 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.

Hypersensitivity reactions (dyspnea, angioedema, rash, pruritus)

7 DRUG INTERACTIONS

Fidaxomicin and its main metabolite, OP-1118, are substrates of the efflux transporter, P-glycoprotein (P-gp), which is expressed in the gastrointestinal tract.

7.1 Cyclosporine

Cyclosporine is an inhibitor of multiple transporters, including P-gp. When cyclosporine was co-administered with DIFICID, plasma concentrations of fidaxomicin and OP-1118 were significantly increased but remained in the ng/mL range [see *Clinical Pharmacology (12.3)*]. Concentrations of fidaxomicin and OP-1118 may also be decreased at the site of action (i.e., gastrointestinal tract) via P-gp inhibition; however, concomitant P-gp inhibitor use had no attributable effect on safety or treatment outcome of fidaxomicin-treated adult patients in controlled clinical trials. Based on these results, fidaxomicin may be co-administered with P-gp inhibitors and no dose adjustment is recommended.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

The limited available data on use of DIFICID in pregnant women are insufficient to inform any drug-associated risk for major birth defects, miscarriage or adverse maternal or fetal outcomes. Embryo-fetal reproduction studies in rats and rabbits dosed intravenously during organogenesis revealed no evidence of harm to the fetus at fidaxomicin and OP-1118 (its main metabolite) exposures 65-fold or higher than the clinical exposure at the DIFICID recommended dose [see Data].

The estimated background risk of major birth defects and miscarriage for the indicated populations 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

Animal Data

In pregnant rats, fidaxomicin was administered intravenously at doses of 4, 8, and 15 mg/kg/day from gestation day 6 through 17 (during the period of organogenesis). No embryo/fetal effects were noted in this study at exposures (AUC) 193-fold higher for fidaxomicin, and 65-fold higher for OP-1118 than the clinical exposure at the DIFICID recommended dose.

In pregnant rabbits, fidaxomicin was administered intravenously at doses of 2, 4, and 7.5 mg/kg/day from gestation day 6 through 18 (during the period of organogenesis). No embryo/fetal effects were noted in this study at exposures 66-fold higher for fidaxomicin, and 245-fold higher for OP-1118 than the clinical exposure at the DIFICID recommended dose.

8.2 Lactation

Risk Summary

There is no information on the presence of fidaxomicin or its main metabolite, OP-1118, in human milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for DIFICID and any potential adverse effects on the breastfed infant from DIFICID or from the underlying maternal condition.

8.4 Pediatric Use

The safety and effectiveness of DIFICID for the treatment of CDAD have been established in pediatric patients 6 months to less than 18 years of age. Use of DIFICID in these age groups is supported by evidence from adequate and well-controlled trials of DIFICID in adults with CDAD and pharmacokinetic, safety and efficacy data from pediatric trials [see *Clinical Pharmacology* (12.3), *Clinical Studies* (14.2)]. No new safety signals associated with the use of DIFICID in pediatric patients were identified in the pediatric trials [see *Adverse Reactions* (6.1)].

The safety and effectiveness of DIFICID have not been established in pediatric patients younger than 6 months of age.

8.5 Geriatric Use

Of the total number of patients in controlled trials of DIFICID, 50% were 65 years of age and over, while 31% were 75 and over. No overall differences in safety or effectiveness of DIFICID compared to vancomycin were observed between these subjects and younger subjects.

In controlled trials, elderly patients (≥ 65 years of age) had higher plasma concentrations of fidaxomicin and its main metabolite, OP-1118, versus non-elderly patients (< 65 years of age) [see *Clinical Pharmacology* (12.3)]. However, greater exposures in elderly patients were not considered to be clinically significant. No dose adjustment is recommended for elderly patients.

10 OVERDOSAGE

No cases of acute overdose have been reported in humans. No drug-related adverse effects were seen in dogs dosed with fidaxomicin tablets at 9600 mg/day (over 100 times the human dose, scaled by weight) for 3 months.

11 DESCRIPTION

DIFICID (fidaxomicin) is a macrolide antibacterial drug for oral administration. Its CAS chemical name is Oxacyclooctadeca-3,5,9,13,15-pentaen-2-one, 3-[[[6-deoxy-4-*O*-(3,5-dichloro-2-ethyl-4,6-dihydroxybenzoyl)-2-*O*-methyl-β-D-mannopyranosyl]oxy]methyl]-12-[[6-deoxy-5-*C*-methyl-4-*O*-(2-methyl-1-oxopropyl)-β-D-*lyxo*-hexopyranosyl]oxy]-11-ethyl-8-hydroxy-18-[(1*R*)-1-hydroxyethyl]-9,13,15-trimethyl-, (3*E*,5*E*,8*S*,9*E*,11*S*,12*R*,13*E*,15*E*,18*S*)-. The structural formula of fidaxomicin is shown in Figure 1.

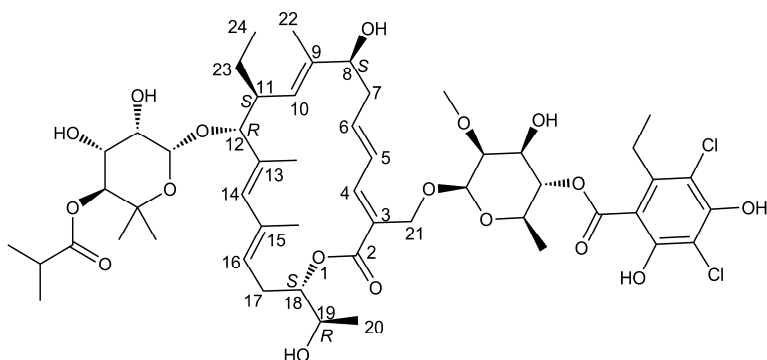


Figure 1: Structural Formula of Fidaxomicin

DIFICID tablets are film-coated and contain 200 mg of fidaxomicin per tablet and the following inactive ingredients: butylated hydroxytoluene, hydroxypropyl cellulose, lecithin (soy), magnesium stearate, microcrystalline cellulose, polyethylene glycol, polyvinyl alcohol, pregelatinized starch, sodium starch glycolate, talc, and titanium dioxide.

DIFICID for oral suspension is supplied as granules in bottles containing 5.45 g of fidaxomicin (40 mg of fidaxomicin per mL after reconstitution) and the following inactive ingredients: citric acid, microcrystalline cellulose, mixed berry flavor, sodium benzoate, sodium citrate, sodium starch glycolate, sucralose, and xanthan gum.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Fidaxomicin is an antibacterial drug [see Microbiology (12.4)].

12.2 Pharmacodynamics

Fidaxomicin acts locally in the gastrointestinal tract on *C. difficile*. In a dose-ranging trial (N=48) of fidaxomicin using 50 mg, 100 mg, and 200 mg twice daily for 10 days, a dose-response relationship was observed for efficacy.

12.3 Pharmacokinetics

The pharmacokinetic parameters of fidaxomicin and its main metabolite OP-1118 following a single dose of 200 mg in healthy adult males (N=14) are summarized in Table 4.

Table 4: Mean ($\pm$ Standard Deviation) Pharmacokinetic Parameters of Fidaxomicin 200 mg in Healthy Adult Males

Parameter	Fidaxomicin		OP-1118	
	N	Value	N	Value
$C_{\max}$ (ng/mL)	14	5.20 ± 2.81	14	12.0 ± 6.06
$T_{\max}$ (h)*	14	2.00 (1.00-5.00)	14	1.02 (1.00-5.00)
AUC_{0-t} (ng-h/mL)	14	48.3 ± 18.4	14	103 ± 39.4
$AUC_{0-\infty}$ (ng-h/mL)	9	62.9 ± 19.5	10	118 ± 43.3
$t_{1/2}$ (h)	9	11.7 ± 4.80	10	11.2 ± 3.01

* $T_{\max}$, reported as median (range).

$C_{\max}$, maximum observed concentration; $T_{\max}$, time to maximum observed concentration; AUC_{0-t} , area under the concentration-time curve from time 0 to the last measured concentration; $AUC_{0-\infty}$, area under the concentration-time curve from time 0 to infinity; $t_{1/2}$, elimination half-life

Absorption

Fidaxomicin has minimal systemic absorption following oral administration, with plasma concentrations of fidaxomicin and OP-1118 in the ng/mL range at the therapeutic dose. In fidaxomicin-treated patients from controlled trials, plasma concentrations of fidaxomicin and OP-1118 obtained within the $T_{\max}$ window (1-5 hours) were approximately 2- to 6-fold higher than $C_{\max}$ values in healthy adults. Following administration of DIFICID 200 mg twice daily for 10 days, OP-1118 plasma concentrations within the $T_{\max}$ window were approximately 50%-80% higher than on Day 1, while concentrations of fidaxomicin were similar on Days 1 and 10.

In a food-effect study involving administration of DIFICID to healthy adults (N=28) with a high-fat meal versus under fasting conditions, $C_{\max}$ of fidaxomicin and OP-1118 decreased by 21.5% and 33.4%, respectively, while AUC_{0-t} remained unchanged. This decrease in $C_{\max}$ is not considered clinically significant, and thus, DIFICID may be administered with or without food.

Distribution

Fidaxomicin is mainly confined to the gastrointestinal tract following oral administration. In selected patients (N=8) treated with DIFICID 200 mg twice daily for 10 days from controlled trials, fecal concentrations of fidaxomicin and OP-1118 obtained within 24 hours of the last dose ranged from 639-2710 $\mu\text{g/g}$ and 213-1210 $\mu\text{g/g}$, respectively. In contrast, plasma concentrations of fidaxomicin and OP-1118 within the $T_{\max}$ window (1-5 hours) ranged 2-179 ng/mL and 10-829 ng/mL, respectively.

Elimination

Metabolism

Fidaxomicin is primarily transformed by hydrolysis at the isobutyryl ester to form its main and microbiologically active metabolite, OP-1118. Metabolism of fidaxomicin and formation of OP-1118 are not dependent on cytochrome P450 (CYP) enzymes.

At the therapeutic dose, OP-1118 was the predominant circulating compound in healthy adults, followed by fidaxomicin.

Excretion

Fidaxomicin is mainly excreted in feces. In one trial of healthy adults (N=11), more than 92% of the dose was recovered in the stool as fidaxomicin and OP-1118 following single doses of 200 mg and 300 mg. In another trial of healthy adults (N=6), 0.59% of the dose was recovered in urine as OP-1118 only following a single dose of 200 mg.

Specific Populations

Geriatric Patients

In controlled trials of patients treated with DIFICID 200 mg twice daily for 10 days, mean and median values of fidaxomicin and OP-1118 plasma concentrations within the T_{max} window (1-5 hours) were approximately 2- to 4-fold higher in elderly patients (≥65 years of age) versus non-elderly patients (<65 years of age). Despite greater exposures in elderly patients, fidaxomicin and OP-1118 plasma concentrations remained in the ng/mL range [see *Use in Specific Populations* (8.5)].

Pediatric Patients

Similar to adults, fidaxomicin has minimal systemic absorption following oral administration across all age groups in pediatric patients. Plasma concentrations remained in the ng/mL range at the therapeutic dose in pediatric patients with mean (± standard deviation) plasma concentrations of 39.41 (±62.15) ng/mL of fidaxomicin and 116.64 (±259.10) ng/mL of OP-1118 at 1 to 5 hours post-dose.

Male and Female Patients

Plasma concentrations of fidaxomicin and OP-1118 within the T_{max} window (1-5 hours) did not vary by gender in patients treated with DIFICID 200 mg twice daily for 10 days from controlled trials. No dose adjustment is recommended based on gender.

Patients with Renal Impairment

In controlled trials of patients treated with DIFICID 200 mg twice daily for 10 days, plasma concentrations of fidaxomicin and OP-1118 within the T_{max} window (1-5 hours) did not vary by severity of renal impairment (based on creatinine clearance) between mild (51-79 mL/min), moderate (31-50 mL/min), and severe (≤30 mL/min) categories. No dose adjustment is recommended based on renal function.

Patients with Hepatic Impairment

The impact of hepatic impairment on the pharmacokinetics of fidaxomicin has not been evaluated. Because fidaxomicin and OP-1118 do not appear to undergo significant hepatic metabolism, elimination of fidaxomicin and OP-1118 is not expected to be significantly affected by hepatic impairment.

Drug Interaction Studies

In vivo studies were conducted to evaluate intestinal drug-drug interactions of fidaxomicin as a P-gp substrate, P-gp inhibitor, and inhibitor of major CYP enzymes expressed in the gastrointestinal tract (CYP3A4, CYP2C9, and CYP2C19).

Table 5 summarizes the impact of a co-administered drug (P-gp inhibitor) on the pharmacokinetics of fidaxomicin [see *Drug Interactions* (7.1)].

Table 5: Pharmacokinetic Parameters of Fidaxomicin and OP-1118 in the Presence of a Co-Administered Drug

Parameter	Cyclosporine 200 mg + Fidaxomicin 200 mg* (N=14)		Fidaxomicin 200 mg Alone (N=14)		Mean Ratio of Parameters With/Without Co-Administered Drug (90% CI †) No Effect = 1.00
	N	Mean	N	Mean	
Fidaxomicin					
C _{max} (ng/mL)	14	19.4	14	4.67	4.15 (3.23-5.32)
AUC _{0-∞} (ng-h/mL)	8	114	9	59.5	1.92 (1.39-2.64)
OP-1118					
C _{max} (ng/mL)	14	100	14	10.6	9.51 (6.93-13.05)
AUC _{0-∞} (ng-h/mL)	12	438	10	106	4.11 (3.06-5.53)

* Cyclosporine was administered 1 hour before fidaxomicin.

† CI - confidence interval

Fidaxomicin had no significant impact on the pharmacokinetics of the following co-administered drugs: digoxin (P-gp substrate), midazolam (CYP3A4 substrate), warfarin (CYP2C9 substrate), and omeprazole (CYP2C19

substrate). No dose adjustment is warranted when fidaxomicin is co-administered with substrates of P-gp or CYP enzymes.

12.4 Microbiology

Mechanism of Action

Fidaxomicin is a fermentation product obtained from the Actinomycete *Dactylosporangium aurantiacum*. Fidaxomicin is a macrolide antibacterial drug that inhibits RNA synthesis by binding to RNA polymerases. Fidaxomicin is bactericidal against *C. difficile in vitro*, and demonstrates a post-antibiotic effect vs. *C. difficile* of 6-10 hrs.

Resistance

Fidaxomicin demonstrates no *in vitro* cross-resistance with other classes of antibacterial drugs. *In vitro* studies indicate a low frequency of spontaneous resistance to fidaxomicin in *C. difficile* (ranging from $<1.4 \times 10^{-9}$ to 12.8×10^{-9}). A specific mutation (Val-1143-Gly) in the beta subunit of RNA polymerase is associated with reduced susceptibility to fidaxomicin. This mutation was created in the laboratory and seen during clinical trials in a *C. difficile* isolate obtained from an adult subject treated with DIFICID who had recurrence of CDAD. The fidaxomicin minimum inhibitory concentration (MIC) of the *C. difficile* isolate from this subject increased from a baseline of 0.06 µg/mL to 16 µg/mL at the time of CDAD recurrence.

Interaction With Other Antimicrobials

Fidaxomicin and its main metabolite OP-1118 do not exhibit any antagonistic interaction with other classes of antibacterial drugs. Synergistic interactions of fidaxomicin and OP-1118 have been observed *in vitro* with rifampin and rifaximin against *C. difficile*.

Antimicrobial Activity

Fidaxomicin has been shown to be active against most isolates of *Clostridioides* (formerly *Clostridium*) *difficile*, both *in vitro* and in clinical infections [see *Indications and Usage (1)*].

Susceptibility Testing

For specific information regarding susceptibility test interpretive criteria, and associated test methods and quality control standards recognized by FDA for this drug, please see: <https://www.fda.gov/STIC>.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term carcinogenicity studies have not been conducted to evaluate the carcinogenic potential of fidaxomicin.

Neither fidaxomicin nor OP-1118 was mutagenic in the Ames assay. Fidaxomicin was also negative in the rat micronucleus assay. However, fidaxomicin was clastogenic in Chinese hamster ovary cells.

Fidaxomicin did not affect the fertility of male and female rats at intravenous doses of 6.3 mg/kg. The exposure (AUC_{0-t}) was approximately 100 times that in humans.

14 CLINICAL STUDIES

14.1 Clinical Studies of DIFICID in Adult Patients with CDAD

In two randomized, double-blinded trials, a non-inferiority design was utilized to demonstrate the efficacy of DIFICID (200 mg tablets twice daily for 10 days) compared to vancomycin (125 mg four times daily for 10 days) in adults with CDAD.

Enrolled patients were 18 years of age or older and received no more than 24 hours of pretreatment with vancomycin or metronidazole. CDAD was defined by >3 unformed bowel movements (or >200 mL of unformed stool for subjects having rectal collection devices) in the 24 hours before randomization, and presence of either *C. difficile* toxin A or B in the stool within 48 hours of randomization. Enrolled patients had either no prior CDAD

history or only one prior CDAD episode in the past three months. Subjects with life-threatening/fulminant infection, hypotension, septic shock, peritoneal signs, significant dehydration, or toxic megacolon were excluded.

The demographic profile and baseline CDAD characteristics of enrolled subjects were similar in the two trials. Patients had a median age of 64 years, were mainly white (90%), female (58%), and inpatients (63%). The median number of bowel movements per day was 6, and 37% of subjects had severe CDAD (defined as 10 or more unformed bowel movements per day or WBC $\geq 15000/\text{mm}^3$). Diarrhea alone was reported in 45% of patients and 84% of subjects had no prior CDAD episode.

The primary efficacy endpoint was the clinical response rate at the end of treatment, based upon improvement in diarrhea or other symptoms such that, in the investigator's judgment, further CDAD treatment was not needed. An additional efficacy endpoint was sustained clinical response 25 days after the end of treatment. Sustained response was evaluated only for patients who were clinical successes at the end of treatment. Sustained response was defined as clinical response at the end of treatment, and survival without proven or suspected CDAD recurrence through 25 days beyond the end of treatment.

The results for clinical response at the end of treatment in both trials, shown in Table 6, indicate that DIFICID is non-inferior to vancomycin based on the 95% confidence interval (CI) lower limit being greater than the non-inferiority margin of -10%.

The results for sustained clinical response at the end of the follow-up period, also shown in Table 6, indicate that DIFICID is superior to vancomycin on this endpoint. Since clinical success at the end of treatment and mortality rates were similar across treatment arms (approximately 6% in each group), differences in sustained clinical response were due to lower rates of proven or suspected CDAD during the follow-up period in DIFICID patients.

Table 6: Clinical Response Rates at End-of-Treatment and Sustained Response at 25 days Post-Treatment in Adult Patients

	Clinical Response at End of Treatment			Sustained Response at 25 days Post-Treatment		
	DIFICID % (N)	Vancomycin % (N)	Difference (95% CI)*	DIFICID % (N)	Vancomycin % (N)	Difference (95% CI)*
Trial 1	88% (N=289)	86% (N=307)	2.6% (-2.9%, 8.0%)	70% (N=289)	57% (N=307)	12.7% (4.4%, 20.9%)
Trial 2	88% (N=253)	87% (N=256)	1.0% (-4.8%, 6.8%)	72% (N=253)	57% (N=256)	14.6% (5.8%, 23.3%)

* Confidence interval (CI) was derived using Wilson's score method. Approximately 5%-9% of the data in each trial and treatment arm were missing sustained response information and were imputed using multiple imputation method.

Restriction Endonuclease Analysis (REA) was used to identify *C. difficile* baseline isolates in the BI group, isolates associated with increasing rates and severity of CDAD in the US in the years prior to the clinical trials. Similar rates of clinical response at the end of treatment and proven or suspected CDAD during the follow-up period were seen in fidaxomicin-treated and vancomycin-treated patients infected with a BI isolate. However, DIFICID did not demonstrate superiority in sustained clinical response when compared with vancomycin (Table 7).

Table 7: Sustained Clinical Response at 25 Days after Treatment by *C. difficile* REA Group at Baseline in Adult Patients

Trial 1			
Initial <i>C. difficile</i> Group	DIFICID n/N (%)	Vancomycin n/N (%)	Difference (95% CI)*
BI Isolates	44/76 (58%)	52/82 (63%)	-5.5% (-20.3%, 9.5%)
Non-BI Isolates	105/126 (83%)	87/131 (66%)	16.9% (6.3%, 27.0%)
Trial 2			
Initial <i>C. difficile</i> Group	DIFICID n/N (%)	Vancomycin n/N (%)	Difference (95% CI)*
BI Isolates	42/65 (65%)	31/60 (52%)	12.9% (-4.2%, 29.2%)
Non-BI Isolates	109/131 (83%)	77/121 (64%)	19.6% (8.7%, 30.0%)

* Interaction test between the effect on sustained response rate and BI versus non-BI isolates using logistic regression (p-values: trial 1: 0.009; trial 2: 0.29). Approximately 25% of the mITT population were missing data for REA group. Confidence intervals (CI) were derived using Wilson's score method.

14.2 Clinical Studies of DIFICID in Pediatric Patients with CDAD

The safety and efficacy of DIFICID in pediatric patients 6 months to less than 18 years of age was investigated in a Phase 3, multicenter, investigator-blinded, randomized, comparative trial (NCT02218372). In this trial, 148 patients were randomized, of whom 142 received either DIFICID or vancomycin in a 2:1 ratio. Randomized patients were stratified by age group as follows: 30 aged 6 months to <2 years, 49 aged 2 to <6 years, 40 aged 6 to <12 years, and 29 aged 12 to <18 years (one patient <6 months of age was enrolled in the trial). Treatment arms were balanced regarding demographics and other baseline characteristics.

Clinical response for patients <2 years of age was defined as the absence of watery stools for at least 2 consecutive days while on treatment and the patient remained well with no requirement for further CDAD therapy through 2 days after completing treatment as assessed by the Investigator. Clinical response for patients ≥2 to <18 years of age was defined as <3 unformed bowel movements for at least 2 consecutive days while on treatment and the patient remained well with no requirement for further CDAD therapy through 2 days after completing treatment as assessed by the Investigator. Sustained clinical response was defined as the proportion of treated patients with confirmed clinical response and no CDAD recurrence through 30 days after end of treatment. The clinical response and sustained clinical response overall and by age groups are presented in Table 8.

Table 8: Clinical Response and Sustained Response Overall and by Age Group in Pediatric Patients

	Clinical Response			Sustained Response at 30 days Post-Treatment		
	DIFICID n/N (%)	Vancomycin n/N (%)	Difference (95% CI)	DIFICID n/N (%)	Vancomycin n/N (%)	Difference (95% CI)
Overall	76/98 (77.6)	31/44 (70.5)	7.5 (-7.4, 23.9)	67/98 (68.4)	22/44 (50.0)	18.4 (1.5, 35.3)
<2 years	13/20 (65.0)	9/10 (90.0)		11/20 (55.0)	7/10 (70.0)	
≥2 to <6 years	25/32 (78.1)	12/16 (75.0)		21/32 (65.6)	8/16 (50.0)	
≥6 to <12 years	23/26 (88.5)	5/10 (50.0)		22/26 (84.6)	4/10 (40.0)	
≥12 to <18 years	15/20 (75.0)	5/8 (62.5)		13/20 (65.0)	3/8 (37.5)	

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Tablets

DIFICID tablets are white to off-white film-coated, oblong tablets containing 200 mg of fidaxomicin per tablet; each tablet is debossed with "FDX" on one side and "200" on the other side.

DIFICID tablets are supplied as bottles of 20 tablets (NDC 52015-080-01).

Granules for Oral Suspension

DIFICID granules for oral suspension are white to yellowish white.

DIFICID granules for oral suspension (NDC 52015-7002-2) is supplied as 150 mL amber glass bottles of 9.53 g of granules that contain 5.45 g of fidaxomicin. Each glass bottle has a child-resistant cap and is sealed in a laminated aluminum foil pouch. After reconstitution, the total oral suspension volume is 136 mL. Discard unused suspension after 12 days. The concentration of fidaxomicin is 40 mg/mL (200 mg per 5 mL) in the reconstituted oral suspension.

16.2 Storage

Tablets

Store DIFICID tablets at 20°C-25°C (68°F-77°F); excursions permitted to 15°C-30°C (59°F-86°F). See USP controlled room temperature. Store in the original bottle.

Granules for oral suspension

Store DIFICID granules for oral suspension at 20°C-25°C (68°F-77°F); excursions permitted to 15°C-30°C (59°F-86°F). Store in the original package. Do not open pouch until time of use.

Once reconstituted, store DIFICID oral suspension refrigerated at 2°C-8°C (36°F-46°F) for up to 12 days. Store capped in the original bottle.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Oral Suspension

Remove the bottle from the refrigerator 15 minutes prior to each administration.

Instruct patients or caregivers to use an oral dosing syringe to correctly measure the prescribed amount of medication. Inform patients or caregivers that oral dosing syringes may be obtained from their pharmacy.

Inform the patients or caregivers that DIFICID oral suspension should be prepared by a healthcare professional. Advise them to contact a healthcare professional for any questions regarding administration of DIFICID oral suspension.

Administration with Food

Inform patients and caregivers that DIFICID tablets and oral suspension may be taken with or without food.

Antibacterial Resistance

Patients should be counseled that antibacterial drugs, including DIFICID, should only be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When DIFICID is prescribed to treat a *C. difficile* infection, patients should be told that, although it is common to feel better early in the course of therapy, the medication should be taken exactly as directed. Skipping doses or not completing the full course of therapy may (1) decrease the effectiveness of the immediate treatment and (2) increase the likelihood that bacteria will develop resistance and will not be treatable by DIFICID or other antibacterial drugs in the future.

 Manufactured for: Merck Sharp & Dohme Corp., a subsidiary of
MERCK & CO., INC., Whitehouse Station, NJ 08889, USA

For patent information: www.merck.com/product/patent/home.html

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uspi-mk5119-mf-2001r003

Patient Information

DIFICID® (dih-fih-sid)
(fidaxomicin)
tablets, for oral use
DIFICID® (dih-fih-sid)
(fidaxomicin)
for oral suspension

What You Need to Know About Your Medicine

- Before you take DIFICID, be sure you understand what it is for and how to take it.
- If you have questions about DIFICID, ask your doctor or pharmacist.
- Remember that your doctor has prescribed DIFICID only for you. Never give this medicine to anyone else.
- Keep this Patient Information for DIFICID so you can read it again.

What is DIFICID?

DIFICID is an antibiotic medicine used to treat an infection called *Clostridioides difficile*-associated diarrhea (CDAD) in adults and children 6 months of age and older. *Clostridioides difficile* (C-diff) is a bacterium that can cause an infection that can damage your colon and cause stomach pain and severe diarrhea.

- DIFICID is not to be used to treat other types of infections in the body.
- Sometimes infections are caused by viruses rather than bacteria. Antibiotic medicines, including DIFICID, do not kill viruses.

It is not known if DIFICID is safe and effective in children under 6 months old.

Who should not take DIFICID?

Do not take DIFICID if you are allergic to fidaxomicin, or any other ingredient in DIFICID. See the end of this Patient Information for a complete list of ingredients in DIFICID.

What should I tell my doctor before taking DIFICID?

Pregnancy

- If you are pregnant or plan to become pregnant, tell your doctor before you take DIFICID.
- It is not known if DIFICID will harm your baby while you are pregnant.
- If you are pregnant, you and your doctor should decide together if you will take DIFICID.

Breastfeeding

- If you are breastfeeding or plan to breastfeed, tell your doctor before you take DIFICID.
- It is not known if DIFICID passes into breast milk.
- If you are breastfeeding, you and your doctor should decide together if you will take DIFICID.

Other Medicines

- **Tell your doctor about all of the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal and dietary supplements.
- Know the medicines you take. Keep a list of your medicines to show your doctor and pharmacist when you get a new medicine.

Allergic Reactions

- See “**Who should not take DIFICID?**”
- If you are allergic to other kinds of antibiotics called macrolides (for example: azithromycin (Zithromax) or clarithromycin (Biaxin)) or any other ingredient in DIFICID, tell your doctor. See the end of this Patient Information for a complete list of ingredients in DIFICID.

How do I take DIFICID?

- Take DIFICID tablets or oral suspension exactly as prescribed by your doctor.
- Take DIFICID twice a day (approximately every 12 hours). For example, if you take your first dose at 8:00 a.m. you should take your second dose at 8:00 p.m.
- You can take DIFICID with or without food.
- If DIFICID oral suspension is prescribed for your child:
 - DIFICID oral suspension is a liquid that your pharmacist will mix before it is given to you.
 - Store DIFICID oral suspension in the refrigerator (see “**How should I store DIFICID?**”).
 - Take the bottle out of the refrigerator 15 minutes before giving the dose to your child.
 - Shake the bottle well before each dose. DIFICID oral suspension should be white to yellowish white.
 - Remove the cap and measure the dose with the oral dosing syringe provided by your pharmacist.
 - Give the dose by mouth to your child using the oral dosing syringe.
 - Put the cap back on the bottle and store in the refrigerator after each dose.
- **Do not** skip any doses or stop taking DIFICID until you finish your prescribed treatment, even if you begin to feel better, unless you have a serious allergic reaction (see “**What are the possible side effects of DIFICID?**”).

This will lower the chance that the bacteria will become resistant to DIFICID. If this happens, DIFICID and other antibiotic medicines may not work in the future.

What are the possible side effects of DIFICID?

DIFICID can cause serious side effects, including:

- **Allergic reaction.** If you get a severe allergic reaction while taking DIFICID, including problems breathing or shortness of breath, rash, itching or hives, or swelling of the mouth, throat, or face, stop taking DIFICID and get emergency medical help right away.

Common side effects of DIFICID include:

The most common side effects of DIFICID in **adults** include:

- | | |
|----------------|--|
| • nausea | • bleeding in the stomach or intestines |
| • vomiting | • low red blood cell count (anemia) |
| • stomach pain | • low white blood cell count (neutropenia) |

The most common side effects of DIFICID in **children** include:

- | | |
|----------------|---|
| • fever | • constipation |
| • vomiting | • rash |
| • diarrhea | • high levels of enzymes called aminotransferases in the blood, which may indicate liver damage |
| • stomach pain | |

Other less common side effects of DIFICID may include:

- | | |
|---|-----------------------|
| • swelling of any body part (such as your face, lips, tongue or around your eyes) | |
| • itching | |
| • hives | • passing gas |
| • bloating | • intestinal blockage |

- stomach tenderness
- heartburn
- problems swallowing
- high blood sugar (hyperglycemia)
- abnormal liver tests
- low levels of blood bicarbonate
- serious bowel inflammation (toxic megacolon)
- low platelet count (important for clotting and to control bleeding)
- high levels of acid in your blood (metabolic acidosis)

**If you have any side effect that bothers you or does not go away,
tell your doctor.**

There may be other side effects to DIFICID that are not listed. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store DIFICID?

DIFICID tablets

- Store DIFICID tablets at room temperature between 68°F to 77°F (20°C to 25°C).
- Keep DIFICID in its original bottle until you are ready to take it.

DIFICID for oral suspension

- Store DIFICID oral suspension in the refrigerator between 36°F to 46°F (2°C to 8°C) for up to 12 days. Throw away (discard) any unused DIFICID oral suspension by the date written on the bottle.
- Keep DIFICID in its original child-resistant bottle with the cap on until you are ready to give it to your child.

Keep DIFICID and all medicines out of the reach of children.

General information about the safe and effective use of DIFICID.

Medicines are sometimes prescribed for purposes other than those listed in the Patient Information. Do not take DIFICID for a condition for which it was not prescribed. Do not give DIFICID to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or doctor for information about DIFICID that is written for health professionals.

What if I have questions?

- Call your doctor.
- Call Merck, the company that makes DIFICID, at 1-800-444-2080.
- Go to the website – www.DIFICID.com.
- You can also find the full prescribing information written for doctors at www.DIFICID.com

What are the ingredients in DIFICID?

DIFICID tablets

- **Active ingredient:** fidaxomicin.
- **Inactive ingredients:** butylated hydroxytoluene, hydroxypropyl cellulose, lecithin (soy), magnesium stearate, microcrystalline cellulose, polyethylene glycol, polyvinyl alcohol, pregelatinized starch, sodium starch glycolate, talc, and titanium dioxide.

DIFICID for oral suspension

- **Active ingredient:** fidaxomicin.
- **Inactive ingredients:** citric acid, microcrystalline cellulose, mixed berry flavor, sodium benzoate, sodium citrate, sodium starch glycolate, sucralose, and xanthan gum.

Manuf. for: Merck Sharp & Dohme Corp., a subsidiary of
 **MERCK & CO., INC.**, Whitehouse Station, NJ 08889, USA

For patent information: www.merck.com/product/patent/home.html. The trademarks depicted herein are owned by their respective companies.

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usppi-mk5119-mf-2001r001

This Patient Information has been approved by the U.S. Food and Drug Administration.
Revised: 01/2020





SHAKE WELL BEFORE EACH USE

USUAL DOSAGE: See package insert.
Store in the original bottle. Refrigerate reconstituted suspension at 2°C-8°C (36°F-46°F) for up to 12 days.
For oral administration only.
See enclosed package insert for preparation instructions.

XXXXXXXX/XXXXXX/X

DIFICID[®]
(fidaxomicin)

NDC 52015-7002-1

for oral
suspension

40 mg/mL

**MUST BE RECONSTITUTED
BY A PHARMACIST
BEFORE DISPENSING**

Discard unused portion after
MONTH / DAY / YEAR

Each mL contains 40 mg fidaxomicin after reconstitution with 130 mL purified water. (136 mL total volume after reconstitution)
Rx only
Mixed berry flavored



Mylan, for Mark Sharp & Dolans Corp., a subsidiary of
Mylan & Co., Inc., Whitehouse Station, NJ 08889, USA

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NDC 52015-7002-3


DIFICID[®]
(fidaxomicin) *for oral suspension*

40 mg/mL

**MUST BE RECONSTITUTED BY A PHARMACIST
BEFORE DISPENSING**

See enclosed package insert for preparation instructions.

For pediatric use

For oral administration only

Each mL contains 40 mg fidaxomicin after reconstitution with
130 mL purified water. (136 mL total volume after reconstitution)

USUAL DOSAGE: See package insert.

Do not open pouch until time of use. Store in the original package.

Before reconstitution: Store at 20°C-25°C (68°F-77°F), excursions
permitted to 15°C-30°C (59°F-86°F).

After reconstitution: Store refrigerated at 2°C-8°C (36°F-46°F) for
up to 12 days. **Discard unused portion after 12 days.**

Mixed berry flavored

Rx only

Manuf. for: Merck Sharp & Dohme Corp.,
a subsidiary of Merck & Co., Inc.,
Whitehouse Station, NJ 08889, USA



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EXP YYYMMMD

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/s/

DMITRI IARIKOV
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