

ESCITALOPRAM- escitalopram tablet, film coated
BluePoint Laboratories

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

ESCITALOPRAM tablets, for oral use

Initial U.S. Approval: 2002

WARNING: SUICIDAL THOUGHTS AND BEHAVIORS

See full prescribing information for complete boxed warning.

Increased risk of suicidal thoughts and behavior in pediatric and young adult patients taking antidepressants. Closely monitor all antidepressant-treated patients for clinical worsening and emergence of suicidal thoughts and behaviors (5.1). Escitalopram oxalate is not approved for use in pediatric patients less than 12 years of age (8.4).

-----**RECENT MAJOR CHANGES**-----

Warnings and Precautions (5.11) 9/2021

-----**INDICATIONS AND USAGE**-----

Escitalopram oxalate is a selective serotonin reuptake inhibitor (SSRI) indicated for:

- Acute and Maintenance Treatment of Major Depressive Disorder (MDD) in adults and adolescents aged 12 to 17 years (1.1)
- Acute Treatment of Generalized Anxiety Disorder (GAD) in adults (1.2)

-----**DOSAGE AND ADMINISTRATION**-----

1. Escitalopram tablets should generally be administered once daily, morning or evening with or without food (2.1, 2.2).

Indication	Recommended Dose
1. MDD in Adolescents (2.1)	1. Initial: 10 mg once daily Recommended: 10 mg once daily Maximum: 20 mg once daily
MDD in Adults (2.1)	Initial: 10 mg once daily Recommended: 10 mg once daily Maximum: 20 mg once daily
GAD in Adults (2.2)	Initial: 10 mg once daily Recommended: 10 mg once daily

- No additional benefits seen at 20 mg/day dose (2.1).
- 10 mg/day is the recommended dose for most elderly patients and patients with hepatic impairment (2.3).
- No dosage adjustment for patients with mild or moderate renal impairment. Use caution in patients with severe renal impairment (2.3).
- Discontinuing escitalopram tablets: A gradual dose reduction is recommended (2.4).

----- **DOSAGE FORMS AND STRENGTHS** -----

- Tablets: 5 mg, 10 mg (scored) and 20 mg (scored)

----- **CONTRAINDICATIONS** -----

- Serotonin Syndrome and MAOIs: Do not use MAOIs intended to treat psychiatric disorders with escitalopram tablets or within 14 days of stopping treatment with escitalopram tablets. Do not use escitalopram tablets within 14 days of stopping an MAOI intended to treat psychiatric disorders. In addition, do not start escitalopram tablets in a patient who is being treated with linezolid or intravenous methylene blue (4.1).
- Pimozide: Do not use concomitantly (4.2).
- Known hypersensitivity to escitalopram or citalopram or any of the inactive ingredients (4.3).

----- **WARNINGS AND PRECAUTIONS** -----

- ● Serotonin Syndrome: Serotonin syndrome has been reported with SSRIs and SNRIs, including escitalopram oxalate, both when taken alone, but especially when co-administered with other serotonergic agents (including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, buspirone, amphetamines, and St. John's Wort). If such symptoms occur, discontinue escitalopram oxalate and initiate supportive treatment. If concomitant use of escitalopram oxalate with other serotonergic drugs is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose increases (4,5.2).
- ● Discontinuation of Treatment with escitalopram oxalate: A gradual reduction in dose rather than abrupt cessation is recommended whenever possible (5.3).
- ● Seizures: Prescribe with care in patients with a history of seizure (5.4).
- ● Activation of Mania/Hypomania: Screen in patients for bipolar disorder (5.5).
- ● Hyponatremia: Can occur in association with SIADH (5.6).
- ● Abnormal Bleeding: Use caution in concomitant use with NSAIDs, aspirin, warfarin or other drugs that affect coagulation (5.7).
- ● Interference with Cognitive and Motor Performance: Use caution when operating machinery (5.8).
- ● Angle Closure Glaucoma: Angle closure glaucoma has occurred in patients with untreated anatomically narrow angles treated with antidepressants. (5.9)
- ● Use in Patients with Concomitant Illness: Use caution in patients with diseases or conditions that produce altered metabolism or hemodynamic responses (5.10).
- Sexual Dysfunction: Escitalopram oxalate may cause symptoms of sexual dysfunction (5.11).

-----ADVERSE REACTIONS-----

Most commonly observed adverse reactions (incidence \geq 5% and at least twice the incidence of placebo patients) are: insomnia, ejaculation disorder (primarily ejaculatory delay), nausea, sweating increased, fatigue and somnolence, decreased libido, and anorgasmia (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Accord Healthcare Inc. at 1-866-941-7875 or www.accordhealthcare.us or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----DRUG INTERACTIONS-----

Concomitant use with SSRIs, SNRIs or Tryptophan is not recommended (7.2).

Use caution when concomitant use with drugs that affect Hemostasis (NSAIDs, Aspirin, Warfarin) (7.6).

-----USE IN SPECIFIC POPULATIONS-----

Pregnancy: SSRI use, particularly later in pregnancy, may increase the risk for persistent pulmonary hypertension

and symptoms of poor adaptation (respiratory distress, temperature instability, feeding difficulties, hypotonia,

tremor, irritability) in the neonate. (8.1).

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 1/2021

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FULL PRESCRIBING INFORMATION

WARNINGS: SUICIDAL THOUGHTS AND BEHAVIORS

Antidepressants increased the risk of suicidal thoughts and behaviors in pediatric and young adult patients in short-term studies. Closely monitor all antidepressant-treated patients for clinical worsening, and for emergence of suicidal thoughts and behaviors [see Warnings and Precautions (5.1)]. Escitalopram oxalate is not approved for use in pediatric patients less than 12 years of age [see Use in Specific Populations (8.4)].

1 INDICATIONS AND USAGE

1.1 Major Depressive Disorder

Escitalopram tablet, is indicated for the acute and maintenance treatment of major depressive disorder in adults and in adolescents 12 to 17 years of age [see *Clinical Studies (14.1)*].

A major depressive episode (DSM-IV) implies a prominent and relatively persistent (nearly every day for at least 2 weeks) depressed or dysphoric mood that usually interferes with daily functioning, and includes at least five of the following nine symptoms: depressed mood, loss of interest in usual activities, significant change in weight and/or appetite, insomnia or hypersomnia, psychomotor agitation or retardation, increased fatigue, feelings of guilt or worthlessness, slowed thinking or impaired concentration, a suicide attempt or suicidal ideation.

1.2 Generalized Anxiety Disorder

Escitalopram tablet, is indicated for the acute treatment of Generalized Anxiety Disorder (GAD) in adults [see *Clinical Studies (14.2)*].

Generalized Anxiety Disorder (DSM-IV) is characterized by excessive anxiety and worry (apprehensive expectation) that is persistent for at least 6 months and which the person finds difficult to control. It must be associated with at least 3 of the following symptoms: restlessness or feeling keyed up or on edge, being easily fatigued, difficulty concentrating or mind going blank, irritability, muscle tension, and sleep disturbance.

2 DOSAGE AND ADMINISTRATION

Escitalopram tablets should be administered once daily, in the morning or evening, with or without food.

2.1 Major Depressive Disorder

Initial Treatment

Adolescents

The recommended dose of escitalopram tablet is 10 mg once daily. A flexible-dose trial of escitalopram tablets (10 to 20 mg/day) demonstrated the effectiveness of escitalopram oxalate [see *Clinical Studies (14.1)*]. If the dose is increased to 20 mg, this should occur after a minimum of three weeks.

Adults

The recommended dose of escitalopram tablet is 10 mg once daily. A fixed-dose trial of escitalopram tablets demonstrated the effectiveness of both 10 mg and 20 mg of escitalopram tablets, but failed to demonstrate a greater benefit of 20 mg over 10 mg [see *Clinical Studies (14.1)*]. If the dose is increased to 20 mg, this should occur after a minimum of one week.

Maintenance Treatment

It is generally agreed that acute episodes of major depressive disorder require several months or longer of sustained pharmacological therapy beyond response to the acute episode. Systematic evaluation of continuing escitalopram tablets 10 or 20 mg/day in adults patients with major depressive disorder who responded while taking escitalopram tablets during an 8-week, acute-treatment phase demonstrated a benefit of such maintenance treatment [see *Clinical Studies (14.114.1)*]. Nevertheless, the physician who elects to use escitalopram tablets for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient. Patients should be periodically reassessed to determine the need for maintenance treatment.

2.2 Generalized Anxiety Disorder

Initial Treatment

Adults

The recommended starting dose of escitalopram tablet is 10 mg once daily. If the dose is increased to 20 mg, this should occur after a minimum of one week.

Maintenance Treatment

Generalized anxiety disorder is recognized as a chronic condition. The efficacy of escitalopram tablets in the treatment of GAD beyond 8 weeks has not been systematically studied. The physician who elects to use escitalopram tablets for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient.

2.3 Screen for Bipolar Disorder Prior to Starting Escitalopram Tablets

Prior to initiating treatment with escitalopram tablets or another antidepressant, screen patients for a

personal family history of bipolar disorder, mania, or hypomania [see *Warnings and Precautions (5.5)*].

2.4 Special Populations

10 mg/day is the recommended dose for most elderly patients and patients with hepatic impairment.

No dosage adjustment is necessary for patients with mild or moderate renal impairment.

Escitalopram

tablets should be used with caution in patients with severe renal impairment.

2.5 Discontinuation of Treatment with Escitalopram Tablets

Symptoms associated with discontinuation of escitalopram tablets and other SSRIs and SNRIs have been

reported [see Warnings and Precautions (5.3)]. Patients should be monitored for these symptoms when

discontinuing treatment. A gradual reduction in the dose rather than abrupt cessation is recommended

whenever possible. If intolerable symptoms occur following a decrease in the dose or upon

discontinuation of treatment, then resuming the previously prescribed dose may be considered.

Subsequently, the physician may continue decreasing the dose but at a more gradual rate.

2.6 Switching a Patient to or from a Monoamine Oxidase Inhibitor (MAOI) Intended to Treat Psychiatric Disorders

At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with escitalopram tablets. Conversely, at least 14 days should be allowed after stopping escitalopram tablets before starting an MAOI intended to treat psychiatric disorders [see Contraindications (4.1)].

2.7 Use of Escitalopram Tablets with Other MAOIs such as Linezolid or Methylene Blue

Do not start escitalopram tablets in a patient who is being treated with linezolid or intravenous

methylene blue because there is an increased risk of serotonin syndrome. In a patient who requires

more urgent treatment of a psychiatric condition, other interventions, including hospitalization, should

be considered [see Contraindications (4.1)].

In some cases, a patient already receiving escitalopram tablets therapy may require urgent treatment

with linezolid or intravenous methylene blue. If acceptable alternatives to linezolid or intravenous

methylene blue treatment are not available and the potential benefits of linezolid or intravenous

methylene blue treatment are judged to outweigh the risks of serotonin syndrome in a particular patient,

escitalopram tablets should be stopped promptly, and linezolid or intravenous methylene blue can be

administered. The patient should be monitored for symptoms of serotonin syndrome for 2 weeks or

until 24 hours after the last dose of linezolid or intravenous methylene blue, whichever comes first. Therapy with escitalopram tablets may be resumed 24 hours after the last dose of linezolid or

intravenous methylene blue [see Warnings and Precautions (5.2)].

The risk of administering methylene blue by non-intravenous routes (such as oral tablets or by local

injection) or in intravenous doses much lower than 1 mg/kg with escitalopram tablet is unclear. The

clinician should, nevertheless, be aware of the possibility of emergent symptoms of serotonin

syndrome with such use [see Warnings and Precautions (5.2)].

3 DOSAGE FORMS AND STRENGTHS

Tablets Escitalopram tablets, are film-coated, round tablets containing escitalopram oxalate in strengths

equivalent to 5 mg, 10 mg and 20 mg escitalopram base. The 10 and 20 mg tablets are scored.

Debossed with either “5”, “10”, or “20” on the one side according to their respective strengths and plain

on other side.

4 CONTRAINDICATIONS

4.1 Monoamine Oxidase Inhibitors (MAOIs)

The use of MAOIs intended to treat psychiatric disorders with escitalopram tablets or within 14 days of stopping treatment with escitalopram tablet is contraindicated because of an increased risk of serotonin syndrome. The use of escitalopram tablets within 14 days of stopping an MAOI intended to treat psychiatric disorders is also contraindicated [see *Dosage and Administration (2.5)*, and *Warnings and Precautions (5.2)*].

Starting escitalopram tablets in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue is also contraindicated because of an increased risk of serotonin syndrome [see *Dosage and Administration (2.6)*, and *Warnings and Precautions (5.2)*].

4.2 Pimozide

Concomitant use in patients taking pimozide is contraindicated [see *Drug Interactions (7.10)*].

4.3 Hypersensitivity to escitalopram or citalopram

Escitalopram oxalate is contraindicated in patients with a hypersensitivity to escitalopram or citalopram or any of the inactive ingredients in escitalopram tablets.

5 WARNINGS AND PRECAUTIONS

5.1 Suicidal Thoughts and Behaviors in Adolescents and Young Adults

In pooled analyses of placebo-controlled trials of antidepressant drugs (SSRIs and other antidepressant

classes) that included approximately 77,000 adult patients and 4,500 pediatric patients, the incidence of

suicidal thoughts and behaviors in the antidepressant-treated patients age 24 years and younger was

greater than in placebo-treated patients. There was considerable variation in risk of suicidal thoughts and

behaviors among drugs, but there was an increased risk identified in young patients for most drugs

studied. There were differences in absolute risk of suicidal thoughts and behaviors across the different

indications, with the highest incidence in patients with MDD. The drug-placebo differences in the number

of cases of suicidal thoughts and behaviors per 1000 patients treated are provided in **Table 1.**

TABLE 1 Risk Differences of the Number of Patients of Suicidal Thoughts and Behaviors in the Pooled Placebo-Controlled Trials of Antidepressants in Pediatric and Adult Patients

Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1000 Patients Treated
	Increases Compared to Placebo
<18	14 additional cases
18 to 24	5 additional cases
	Decreases Compared to Placebo
25 to 64	1 fewer case
≥65	6 fewer cases

It is unknown whether the risk of suicidal thoughts and behaviors in children, adolescents, and young

adults extends to longer-term use, i.e., beyond four months. However, there is substantial evidence from

placebo-controlled maintenance trials in adults with MDD that antidepressants delay the

recurrence of

depression and that depression itself is a risk factor for suicidal thoughts and behaviors.

Monitor all antidepressant-treated patients for any indication for clinical worsening and emergence of

suicidal thoughts and behaviors, especially during the initial few months of drug therapy, and at times of

dosage changes. Counsel family members or caregivers of patients to monitor for changes in behavior and

to alert the healthcare provider. Consider changing the therapeutic regimen, including possibly

discontinuing escitalopram oxalate, in patients whose depression is persistently worse, or who are

experiencing emergent suicidal thoughts or behaviors.

5.2 Serotonin Syndrome

The development of a potentially life-threatening serotonin syndrome has been reported with SNRIs and SSRIs, including escitalopram oxalate, alone but particularly with concomitant use of other serotonergic drugs (including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, buspirone, amphetamines, and St. John's Wort) and with drugs that impair metabolism of serotonin (in particular, MAOIs, both those intended to treat psychiatric disorders and also others, such as linezolid and intravenous methylene blue).

Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, delirium, and coma), autonomic instability (e.g., tachycardia, labile blood pressure, dizziness, diaphoresis, flushing, hyperthermia), neuromuscular symptoms (e.g., tremor, rigidity, myoclonus, hyperreflexia, incoordination) seizures, and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Patients should be monitored for the emergence of serotonin syndrome.

The concomitant use of escitalopram oxalate with MAOIs intended to treat psychiatric disorders is contraindicated. Escitalopram oxalate should also not be started in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue. All reports with methylene blue that provided information on the route of administration involved intravenous administration in the dose range of 1 mg/kg to 8 mg/kg. No reports involved the administration of methylene blue by other routes (such as oral tablets or local tissue injection) or at lower doses. There may be circumstances when it is necessary to initiate treatment with an MAOI such as linezolid or intravenous methylene blue in a patient taking escitalopram oxalate. Escitalopram oxalate should be discontinued before initiating treatment with the MAOI [*see Contraindications (4.1) and Dosage and Administration (2.5 and 2.6)*].

If concomitant use of escitalopram oxalate with other serotonergic drugs including, triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, buspirone, tryptophan, amphetamine, and St. John's Wort is clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment

initiation and dose increases.

Treatment with escitalopram oxalate and any concomitant serotonergic agents, should be discontinued immediately if the above events occur and supportive symptomatic treatment should be initiated.

5.3 Discontinuation of Treatment with Escitalopram Oxalate

During marketing of escitalopram oxalate and other SSRIs and SNRIs (serotonin and norepinephrine reuptake inhibitors), there have been spontaneous reports of adverse events occurring upon discontinuation of these drugs, particularly when abrupt, including the following: dysphoric mood, irritability, agitation, dizziness, sensory disturbances (e.g., paresthesias such as electric shock sensations), anxiety, confusion, headache, lethargy, emotional lability, insomnia, and hypomania. While these events are generally self-limiting, there have been reports of serious discontinuation symptoms.

Patients should be monitored for these symptoms when discontinuing treatment with escitalopram oxalate. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physician may continue decreasing the dose but at a more gradual rate [see *Dosage and Administration* (2.4)].

5.4 Seizures

Although anticonvulsant effects of racemic citalopram have been observed in animal studies, escitalopram oxalate has not been systematically evaluated in patients with a seizure disorder. These patients were excluded from clinical studies during the product's premarketing testing. In clinical trials of escitalopram oxalate, cases of convulsion have been reported in association with escitalopram oxalate treatment. Like other drugs effective in the treatment of major depressive disorder, escitalopram oxalate should be introduced with care in patients with a history of seizure disorder.

5.5 Activation of Mania or Hypomania

In patients with bipolar disorder, treating a depressive episode with escitalopram oxalate or another antidepressant may precipitate a mixed/manic episode. In placebo-controlled trials of escitalopram oxalate in major depressive disorder, activation of mania/hypomania was reported in one (0.1%) of 715 patients treated with escitalopram oxalate and in none of the 592 patients treated with placebo. One additional case of hypomania has been reported in association with escitalopram oxalate treatment. Activation of mania/hypomania has also been reported in a small proportion of patients with major affective disorders treated with racemic citalopram and other marketed drugs effective in the treatment of major depressive disorder. Prior to initiating treatment with escitalopram oxalate, screen patients for any personal or family history of bipolar disorder, mania, or hypomania [see *Dosage and Administration* (2.3)].

5.6 Hyponatremia

1. Hyponatremia may occur as a result of treatment with SSRIs and SNRIs, including escitalopram oxalate. In many cases, this hyponatremia appears to be the result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH), and was reversible when escitalopram oxalate was discontinued. Cases with serum sodium

lower than 110 mmol/L have been reported. Elderly patients may be at greater risk of developing hyponatremia with SSRIs and SNRIs. Also, patients taking diuretics or who are otherwise volume depleted may be at greater risk [*see Geriatric Use (8.5)*]. Discontinuation of escitalopram oxalate should be considered in patients with symptomatic hyponatremia and appropriate medical intervention should be instituted.

Signs and symptoms of hyponatremia include headache, difficulty concentrating, memory impairment, confusion, weakness, and unsteadiness, which may lead to falls. Signs and symptoms associated with more severe and/or acute cases have included hallucination, syncope, seizure, coma, respiratory arrest, and death.

5.7 Abnormal Bleeding

1. SSRIs and SNRIs, including escitalopram oxalate, may increase the risk of bleeding events. Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs, warfarin, and other anticoagulants may add to the risk. Case reports and epidemiological studies (case-control and cohort design) have demonstrated an association between use of drugs that interfere with serotonin reuptake and the occurrence of gastrointestinal bleeding. Bleeding events related to SSRIs and SNRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages.

Patients should be cautioned about the risk of bleeding associated with the concomitant use of escitalopram oxalate and NSAIDs, aspirin, or other drugs that affect coagulation.

5.8 Interference with Cognitive and Motor Performance

In a study in normal volunteers, escitalopram oxalate 10 mg/day did not produce impairment of intellectual function or psychomotor performance. Because any psychoactive drug may impair judgment, thinking, or motor skills, however, patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that escitalopram oxalate therapy does not affect their ability to engage in such activities.

5.9 Angle Closure Glaucoma

Angle Closure Glaucoma: The pupillary dilation that occurs following use of many antidepressant drugs including escitalopram oxalate may trigger an angle closure attack in a patient with anatomically narrow angles who does not have a patent iridectomy.

5.10 Use in Patients with Concomitant Illness

Clinical experience with escitalopram oxalate in patients with certain concomitant systemic illnesses is limited. Caution is advisable in using escitalopram oxalate in patients with diseases or conditions that produce altered metabolism or hemodynamic responses.

Escitalopram oxalate has not been systematically evaluated in patients with a recent history of myocardial infarction or unstable heart disease. Patients with these diagnoses were generally excluded from clinical studies during the product's premarketing testing.

- In subjects with hepatic impairment, clearance of racemic citalopram was decreased and plasma concentrations were increased. The recommended dose of escitalopram oxalate in hepatically impaired patients is 10 mg/day [*see Dosage and Administration*

(2.3)].

- Because escitalopram is extensively metabolized, excretion of unchanged drug in urine is a minor route of elimination. Until adequate numbers of patients with severe renal impairment have been evaluated during chronic treatment with escitalopram oxalate, however, it should be used with caution in such patients [see *Dosage and Administration* (2.3)].
- Because escitalopram is extensively metabolized, excretion of unchanged drug in urine is a minor route of elimination. Until adequate numbers of patients with severe renal impairment have been evaluated during chronic treatment with escitalopram oxalate, however, it should be used with caution in such patients [see *Dosage and Administration* (2.3)].

5.11 Sexual Dysfunction

Use of SSRIs, including escitalopram oxalate, may cause symptoms of sexual dysfunction [see *Adverse Reactions* (6.1)]. In male patients, SSRI use may result in ejaculatory delay or failure, decreased libido, and erectile dysfunction. In female patients, SSRI use may result in decreased libido and delayed or absent orgasm.

It is important for prescribers to inquire about sexual function prior to initiation of escitalopram oxalate and to inquire specifically about changes in sexual function during treatment, because sexual function may not be spontaneously reported. When evaluating changes in sexual function, obtaining a detailed history (including timing of symptom onset) is important because sexual symptoms may have other causes, including the underlying psychiatric disorder. Discuss potential management strategies to support patients in making informed decisions about treatment.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

Because clinical studies are conducted under widely varying conditions, adverse reaction rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical studies of another drug and may not reflect the rates observed in practice.

Clinical Trial Data Sources

Pediatrics (6 to 17 years)

Adverse events were collected in 576 pediatric patients (286 escitalopram oxalate, 290 placebo) with major depressive disorder in double-blind placebo-controlled studies. Safety and effectiveness of escitalopram oxalate in pediatric patients less than 12 years of age has not been established.

Adults

Adverse events information for escitalopram oxalate was collected from 715 patients with major depressive disorder who were exposed to escitalopram and from 592 patients who were exposed to placebo in double-blind, placebo-controlled trials. An additional 284 patients with major depressive disorder were newly exposed to escitalopram in open-label trials. The adverse event information for escitalopram oxalate in patients with GAD was collected from 429 patients exposed to escitalopram and from 427 patients exposed to placebo in double-blind, placebo-controlled trials.

Adverse events during exposure were obtained primarily by general inquiry and recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse events without first grouping similar types of events into a smaller number of standardized event categories. In the tables and tabulations that follow, standard World Health Organization (WHO) terminology has been used to classify reported adverse events.

The stated frequencies of adverse reactions represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse event of the type listed. An event was considered treatment-emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation.

Adverse Events Associated with Discontinuation of Treatment

Major Depressive Disorder

Pediatrics (6 to 17 years)

Adverse events were associated with discontinuation of 3.5% of 286 patients receiving escitalopram oxalate and 1% of 290 patients receiving placebo. The most common adverse event (incidence at least 1% for escitalopram oxalate and greater than placebo) associated with discontinuation was insomnia (1% escitalopram oxalate, 0% placebo).

Adults

Among the 715 depressed patients who received escitalopram oxalate in placebo-controlled trials, 6% discontinued treatment due to an adverse event, as compared to 2% of 592 patients receiving placebo. In two fixed-dose studies, the rate of discontinuation for adverse events in patients receiving 10 mg/day escitalopram oxalate was not significantly different from the rate of discontinuation for adverse events in patients receiving placebo. The rate of discontinuation for adverse events in patients assigned to a fixed dose of 20 mg/day escitalopram oxalate was 10%, which was significantly different from the rate of discontinuation for adverse events in patients receiving 10 mg/day escitalopram oxalate (4%) and placebo (3%). Adverse events that were associated with the discontinuation of at least 1% of patients treated with escitalopram oxalate, and for which the rate was at least twice that of placebo, were nausea (2%) and ejaculation disorder (2% of male patients).

Generalized Anxiety Disorder

Adults

Among the 429 GAD patients who received escitalopram oxalate 10 to 20 mg/day in placebo-controlled trials, 8% discontinued treatment due to an adverse event, as compared to 4% of 427 patients receiving placebo. Adverse events that were associated with the discontinuation of at least 1% of patients treated with escitalopram oxalate, and for which the rate was at least twice the placebo rate, were nausea (2%), insomnia (1%), and fatigue (1%).

Incidence of Adverse Reactions in Placebo-Controlled Clinical Trials

Major Depressive Disorder

Pediatrics (6 to 17 years)

The overall profile of adverse reactions in pediatric patients was generally similar to that seen in adult studies, as shown in **Table 2**. However, the following adverse reactions (excluding those which appear in **Table 2** and those for which the coded terms were uninformative or misleading) were reported at an incidence of at least 2% for escitalopram oxalate and greater than placebo: back pain, urinary tract infection, vomiting, and nasal congestion.

Adults

The most commonly observed adverse reactions in escitalopram oxalate patients (incidence of approximately 5% or greater and approximately twice the incidence in placebo patients) were insomnia, ejaculation disorder (primarily ejaculatory delay), nausea, sweating increased, fatigue, and somnolence.

Table 2 enumerates the incidence, rounded to the nearest percent, of treatment-emergent adverse events that occurred among 715 depressed patients who received escitalopram oxalate at doses ranging from 10 to 20 mg/day in placebo-controlled trials. Events included are those occurring in 2% or more of patients treated with escitalopram oxalate and for which the incidence in patients treated with escitalopram oxalate was greater than the incidence in placebo-treated patients.

TABLE 2 Treatment-Emergent Adverse Reactions observed with a frequency of \geq 2% and greater than placebo for Major Depressive Disorder

Adverse Reaction	Escitalopram Oxalate (N=715) %	Placebo (N=592) %
Autonomic Nervous System Disorders		
Dry Mouth	6%	5%
Sweating Increased	5%	2%
Central & Peripheral Nervous System Disorders		
Dizziness	5%	3%
Gastrointestinal Disorders		
Nausea	15%	7%
Diarrhea	8%	5%
Constipation	3%	1%
Indigestion	3%	1%
Abdominal Pain	2%	1%
General		
Influenza-like Symptoms	5%	4%
Fatigue	5%	2%
Psychiatric Disorders		
Insomnia	9%	4%
Somnolence	6%	2%
Appetite Decreased	3%	1%
Libido Decreased	3%	1%
Respiratory System Disorders		

Rhinitis	5%	4%
Sinusitis	3%	2%
Urogenital		
Ejaculation Disorder ^{1,2}	9%	<1%
Impotence ²	3%	<1%
Anorgasmia ³	2%	<1%

¹Primarily ejaculatory delay.

²Denominator used was for males only (N=225 escitalopram oxalate; N=188 placebo).

³Denominator used was for females only (N=490 escitalopram oxalate; N=404 placebo).

Generalized Anxiety Disorder

Adults

The most commonly observed adverse reactions in escitalopram oxalate patients (incidence of approximately 5% or greater and approximately twice the incidence in placebo patients) were nausea, ejaculation disorder (primarily ejaculatory delay), insomnia, fatigue, decreased libido, and anorgasmia.

Table 3 enumerates the incidence, rounded to the nearest percent of treatment-emergent adverse events that occurred among 429 GAD patients who received escitalopram oxalate 10 to 20 mg/day in placebo-controlled trials. Events included are those occurring in 2% or more of patients treated with escitalopram oxalate and for which the incidence in patients treated with escitalopram oxalate was greater than the incidence in placebo-treated patients.

TABLE 3 Treatment-Emergent Adverse Reactions observed with a frequency of $\geq 2\%$ and greater than placebo for Generalized Anxiety Disorder

Adverse Reactions	Escitalopram Oxalate	Placebo
	(N=429)	(N=427)
	%	%
Autonomic Nervous System Disorders		
Dry Mouth	9%	5%
Sweating Increased	4%	1%
Central & Peripheral Nervous System Disorders		
Headache	24%	17%
Paresthesia	2%	1%
Gastrointestinal Disorders		
Nausea	18%	8%
Diarrhea	8%	6%
Constipation	5%	4%
Indigestion	3%	2%
Vomiting	3%	1%
Abdominal Pain	2%	1%

Flatulence	2%	1%
Toothache	2%	0%
General		
Fatigue	8%	2%
Influenza-like Symptoms	5%	4%
Musculoskeletal System Disorder		
Neck/Shoulder Pain	3%	1%
Psychiatric Disorders		
Somnolence	13%	7%
Insomnia	12%	6%
Libido Decreased	7%	2%
Dreaming Abnormal	3%	2%
Appetite Decreased	3%	1%
Lethargy	3%	1%
Respiratory System Disorders		
Yawning	2%	1%
Urogenital		
Ejaculation Disorder ^{1,2}	14%	2%
Anorgasmia ³	6%	<1%
Menstrual Disorder	2%	1%

¹Primarily ejaculatory delay.

²Denominator used was for males only (N=182 escitalopram oxalate; N=195 placebo).

³Denominator used was for females only (N=247 escitalopram oxalate; N=232 placebo).

Dose Dependency of Adverse Reactions

1. The potential dose dependency of common adverse reactions (defined as an incidence rate of $\geq 5\%$ in either the 10 mg or 20 mg escitalopram oxalate groups) was examined on the basis of the combined incidence of adverse reactions in two fixed-dose trials.

The overall incidence rates of adverse events in 10 mg escitalopram oxalate-treated patients (66%) was similar to that of the placebo-treated patients (61%), while the incidence rate in 20 mg/day escitalopram oxalate-treated patients was greater (86%).

Table 4 shows common adverse reactions that occurred in the 20 mg/day escitalopram oxalate group with an incidence that was approximately twice that of the 10 mg/day escitalopram oxalate group and approximately twice that of the placebo group.

TABLE 4 Incidence of Common Adverse Reactions in Patients with Major Depressive Disorder

Adverse Reaction	Placebo (N=311)	10 mg/day Escitalopram Oxalate (N=310)	20 mg/day Escitalopram Oxalate (N=125)
Insomnia	4%	7%	14%
Diarrhea	5%	6%	14%

Dry Mouth	3%	4%	9%
Somnolence	1%	4%	9%
Dizziness	2%	4%	7%
Sweating Increased	<1%	3%	8%
Constipation	1%	3%	6%
Fatigue	2%	2%	6%
Indigestion	1%	2%	6%

Male and Female Sexual Dysfunction with SSRIs

Although changes in sexual desire, sexual performance, and sexual satisfaction often occur as manifestations of a psychiatric disorder, they may also be a consequence of pharmacologic treatment. In particular, some evidence suggests that SSRIs can cause such untoward sexual experiences.

Reliable estimates of the incidence and severity of untoward experiences involving sexual desire, performance, and satisfaction are difficult to obtain, however, in part because patients and physicians may be reluctant to discuss them. Accordingly, estimates of the incidence of untoward sexual experience and performance cited in product labeling are likely to underestimate their actual incidence.

TABLE 5 Incidence of Sexual Side Effects in Placebo-Controlled Clinical Trials

Adverse Event	Escitalopram Oxalate	Placebo
	In Males Only	
	(N=407)	(N=383)
Ejaculation Disorder (primarily ejaculatory delay)	12%	1%
Libido Decreased	6%	2%
Impotence	2%	<1%
	In Females Only	
	(N=737)	(N=636)
Libido Decreased	3%	1%
Anorgasmia	3%	<1%

There are no adequately designed studies examining sexual dysfunction with escitalopram treatment.

Priapism has been reported with all SSRIs.

While it is difficult to know the precise risk of sexual dysfunction associated with the use of SSRIs, physicians should routinely inquire about such possible side effects.

Vital Sign Changes

Escitalopram oxalate and placebo groups were compared with respect to (1) mean change from baseline in vital signs (pulse, systolic blood pressure, and diastolic blood pressure) and (2) the incidence of patients meeting criteria for potentially clinically significant changes from baseline in these variables. These analyses did not reveal any clinically important changes in vital signs associated with escitalopram oxalate treatment.

In addition, a comparison of supine and standing vital sign measures in subjects receiving escitalopram oxalate indicated that escitalopram oxalate treatment is not associated with orthostatic changes.

Weight Changes

Patients treated with escitalopram oxalate in controlled trials did not differ from placebo-treated patients with regard to clinically important change in body weight.

Laboratory Changes

Escitalopram oxalate and placebo groups were compared with respect to (1) mean change from baseline in various serum chemistry, hematology, and urinalysis variables, and (2) the incidence of patients meeting criteria for potentially clinically significant changes from baseline in these variables. These analyses revealed no clinically important changes in laboratory test parameters associated with escitalopram oxalate treatment.

ECG Changes

- Electrocardiograms from escitalopram oxalate (N=625) and placebo (N=527) groups were compared with respect to outliers defined as subjects with QTc changes over 60 msec from baseline or absolute values over 500 msec post-dose, and subjects with heart rate increases to over 100 bpm or decreases to less than 50 bpm with a 25% change from baseline (tachycardic or bradycardic outliers, respectively). None of the patients in the escitalopram oxalate group had a QTcF interval >500 msec or a prolongation >60 msec compared to 0.2% of patients in the placebo group. The incidence of tachycardic outliers was 0.2% in the escitalopram oxalate and the placebo group. The incidence of bradycardic outliers was 0.5% in the escitalopram oxalate group and 0.2% in the placebo group.

QTcF interval was evaluated in a randomized, placebo and active (moxifloxacin 400 mg) controlled cross-over, escalating multiple-dose study in 113 healthy subjects. The maximum mean (95% upper confidence bound) difference from placebo arm were 4.5 (6.4) and 10.7 (12.7) msec for 10 mg and supratherapeutic 30 mg escitalopram given once daily, respectively. Based on the established exposure-response relationship, the predicted QTcF change from placebo arm (95% confidence interval) under the C_{max} for the dose of 20 mg is 6.6 (7.9) msec. Escitalopram 30 mg given once daily resulted in mean C_{max} of 1.7-fold higher than the mean C_{max} for the maximum recommended therapeutic dose at steady state (20 mg). The exposure under supratherapeutic 30 mg dose is similar to the steady state concentrations expected in CYP2C19 poor metabolizers following a therapeutic dose of 20 mg.

Other Reactions Observed During the Premarketing Evaluation of Escitalopram Oxalate

Following is a list of treatment-emergent adverse events, as defined in the introduction to the **ADVERSE REACTIONS** section, reported by the 1428 patients treated with escitalopram oxalate for periods of up to one year in double-blind or open-label clinical trials during its premarketing evaluation. The listing does not include those events already listed in **Tables 2 & 3**, those events for which a drug cause was remote and at a rate less than 1% or lower than placebo, those events which were so general as to be uninformative, and those events reported only once which did not have a substantial probability of being acutely life threatening. Events are categorized by body system. Events of major clinical importance are described in the Warnings and Precautions

section (5).

Cardiovascular - hypertension, palpitation.

Central and Peripheral Nervous System Disorders - light-headed feeling, migraine.

Gastrointestinal Disorders - abdominal cramp, heartburn, gastroenteritis.

General - allergy, chest pain, fever, hot flushes, pain in limb.

Metabolic and Nutritional Disorders - increased weight.

Musculoskeletal System Disorders - arthralgia, myalgia jaw stiffness.

Psychiatric Disorders - appetite increased, concentration impaired, irritability.

Reproductive Disorders/Female - menstrual cramps, menstrual disorder.

Respiratory System Disorders - bronchitis, coughing, nasal congestion, sinus congestion, sinus headache.

Skin and Appendages Disorders - rash.

Special Senses - vision blurred, tinnitus.

Urinary System Disorders - urinary frequency, urinary tract infection.

6.2 Post-Marketing Experience

Adverse Reactions Reported Subsequent to the Marketing of Escitalopram

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

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.

Blood and Lymphatic System Disorders: anemia, agranulocytis, aplastic anemia, hemolytic anemia,

idiopathic thrombocytopenia purpura, leukopenia, thrombocytopenia.

Cardiac Disorders: atrial fibrillation, bradycardia, cardiac failure, myocardial infarction, tachycardia,

torsade de pointes, ventricular arrhythmia, ventricular tachycardia.

Ear and labyrinth disorders: vertigo

Endocrine Disorders: diabetes mellitus, hyperprolactinemia, SIADH.

Eye Disorders: angle closure glaucoma, diplopia, mydriasis, visual disturbance.

Gastrointestinal Disorder: dysphagia, gastrointestinal hemorrhage, gastroesophageal reflux, pancreatitis,

rectal hemorrhage.

General Disorders and Administration Site Conditions: abnormal gait, asthenia, edema,

fall, feeling

abnormal, malaise.

Hepatobiliary Disorders: fulminant hepatitis, hepatic failure, hepatic necrosis, hepatitis.

Immune System Disorders: allergic reaction, anaphylaxis.

Investigations: bilirubin increased, decreased weight, electrocardiogram QT prolongation, hepatic

enzymes increased, hypercholesterolemia, INR increased, prothrombin decreased.

Metabolism and Nutrition Disorders: hyperglycemia, hypoglycemia, hypokalemia, hyponatremia.

Musculoskeletal and Connective Tissue Disorders: muscle cramp, muscle stiffness, muscle weakness,

rhabdomyolysis.

Nervous System Disorders: akathisia, amnesia, ataxia, choreoathetosis, cerebrovascular accident,

dysarthria, dyskinesia, dystonia, extrapyramidal disorders, grand mal seizures (or convulsions),

hypoesthesia, myoclonus, nystagmus, Parkinsonism, restless legs, seizures, syncope, tardive

dyskinesia, tremor.

Pregnancy, Puerperium and Perinatal Conditions: spontaneous abortion.

Psychiatric Disorders: acute psychosis, aggression, agitation, anger, anxiety, apathy, completed suicide,

confusion, depersonalization, depression aggravated, delirium, delusion, disorientation, feeling unreal,

hallucinations (visual and auditory), mood swings, nervousness, nightmare, panic reaction, paranoia,

restlessness, self-harm or thoughts of self-harm, suicide attempt, suicidal ideation, suicidal tendency.

Renal and Urinary Disorders: acute renal failure, dysuria, urinary retention.

Reproductive System and Breast Disorders: menorrhagia, priapism.

Respiratory, Thoracic and Mediastinal Disorders: dyspnea, epistaxis, pulmonary embolism, pulmonary

hypertension of the newborn.

Skin and Subcutaneous Tissue Disorders: alopecia, angioedema, dermatitis, ecchymosis, erythema

multiforme, photosensitivity reaction, Stevens Johnson Syndrome, toxic epidermal necrolysis, urticaria.

Vascular Disorders: deep vein thrombosis, flushing, hypertensive crisis, hypotension, orthostatic

hypotension, phlebitis, thrombosis.

7 DRUG INTERACTIONS

7.1 Monoamine Oxidase Inhibitors (MAOIs)

[see *Dosage and Administration (2.5 and 2.6)*, *Contraindications (4.1)* and *Warnings and Precautions (5.2)*].

7.2 Serotonergic Drugs

[see *Dosage and Administration (2.5 and 2.6)*, *Contraindications (4.1)* and *Warnings and Precautions (5.2)*].

7.3 Triptans

- There have been rare postmarketing reports of serotonin syndrome with use of an SSRI and a triptan. If concomitant treatment of escitalopram oxalate with a triptan is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases see *Warnings and Precautions (5.2)*].

7.4 CNS Drugs

Given the primary CNS effects of escitalopram, caution should be used when it is taken in combination with other centrally acting drugs.

7.5 Alcohol

Although escitalopram oxalate did not potentiate the cognitive and motor effects of alcohol in a clinical trial, as with other psychotropic medications, the use of alcohol by patients taking escitalopram oxalate is not recommended.

7.6 Drugs That Interfere With Hemostasis (NSAIDs, Aspirin, Warfarin, etc.)

Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of the case-control and cohort design that have demonstrated an association between use of psychotropic drugs that interfere with serotonin reuptake and the occurrence of upper gastrointestinal bleeding have also shown that concurrent use of an NSAID or aspirin may potentiate the risk of bleeding. Altered anticoagulant effects, including increased bleeding, have been reported when SSRIs and SNRIs are coadministered with warfarin. Patients receiving warfarin therapy should be carefully monitored when escitalopram oxalate is initiated or discontinued.

7.7 Cimetidine

In subjects who had received 21 days of 40 mg/day racemic citalopram, combined administration of 400 mg twice a day cimetidine for 8 days resulted in an increase in citalopram AUC and C_{max} of 43% and 39%, respectively. The clinical significance of these findings is unknown.

7.8 Digoxin

In subjects who had received 21 days of 40 mg/day racemic citalopram, combined administration of citalopram and digoxin (single dose of 1 mg) did not significantly affect the pharmacokinetics of either citalopram or digoxin.

7.9 Lithium

Coadministration of racemic citalopram (40 mg/day for 10 days) and lithium (30 mmol/day for 5 days) had no significant effect on the pharmacokinetics of citalopram or lithium. Nevertheless, plasma lithium levels should be monitored with appropriate adjustment to the lithium dose in accordance with standard clinical practice. Because lithium may enhance the serotonergic effects of escitalopram, caution should be exercised when escitalopram oxalate and lithium are coadministered.

7.10 Pimozide and Celexa

In a controlled study, a single dose of pimozide 2 mg co-administered with racemic citalopram 40 mg given once daily for 11 days was associated with a mean increase in QTc values of approximately 10 msec compared to pimozide given alone. Racemic citalopram did not alter the mean AUC or C_{max} of pimozide. The mechanism of this pharmacodynamic interaction is not known.

7.11 Sumatriptan

There have been rare postmarketing reports describing patients with weakness, hyperreflexia, and incoordination following the use of an SSRI and sumatriptan. If concomitant treatment with sumatriptan and an SSRI (e.g., fluoxetine, fluvoxamine, paroxetine, sertraline, citalopram, escitalopram) is clinically warranted, appropriate observation of the patient is advised.

7.12 Theophylline

Combined administration of racemic citalopram (40 mg/day for 21 days) and the CYP1A2 substrate theophylline (single dose of 300 mg) did not affect the pharmacokinetics of theophylline. The effect of theophylline on the pharmacokinetics of citalopram was not evaluated.

7.13 Warfarin

Administration of 40 mg/day racemic citalopram for 21 days did not affect the pharmacokinetics of warfarin, a CYP3A4 substrate. Prothrombin time was increased by 5%, the clinical significance of which is unknown.

7.14 Carbamazepine

Combined administration of racemic citalopram (40 mg/day for 14 days) and carbamazepine (titrated to 400 mg/day for 35 days) did not significantly affect the pharmacokinetics of carbamazepine, a CYP3A4 substrate. Although trough citalopram plasma levels were unaffected, given the enzyme-inducing properties of carbamazepine, the possibility that carbamazepine might increase the clearance of escitalopram should be considered if the two drugs are coadministered.

7.15 Triazolam

Combined administration of racemic citalopram (titrated to 40 mg/day for 28 days) and the CYP3A4 substrate triazolam (single dose of 0.25 mg) did not significantly affect the pharmacokinetics of either citalopram or triazolam.

7.16 Ketoconazole

Combined administration of racemic citalopram (40 mg) and ketoconazole (200 mg), a potent CYP3A4 inhibitor, decreased the C_{max} and AUC of ketoconazole by 21% and 10%, respectively, and did not significantly affect the pharmacokinetics of citalopram.

7.17 Ritonavir

Combined administration of a single dose of ritonavir (600 mg), both a CYP3A4 substrate and a potent inhibitor of CYP3A4, and escitalopram (20 mg) did not affect the pharmacokinetics of either ritonavir or escitalopram.

7.18 CYP3A4 and -2C19 Inhibitors

In vitro studies indicated that CYP3A4 and -2C19 are the primary enzymes involved in the metabolism of escitalopram. However, coadministration of escitalopram (20 mg) and ritonavir (600 mg), a potent inhibitor of CYP3A4, did not significantly affect the pharmacokinetics of escitalopram. Because escitalopram is metabolized by multiple enzyme systems, inhibition of a single enzyme may not appreciably decrease escitalopram clearance.

7.19 Drugs Metabolized by Cytochrome P4502D6

In vitro studies did not reveal an inhibitory effect of escitalopram on CYP2D6. In addition, steady state levels of racemic citalopram were not significantly different in poor metabolizers and extensive CYP2D6 metabolizers after multiple-dose administration of citalopram, suggesting that coadministration, with escitalopram, of a drug that inhibits CYP2D6, is unlikely to have clinically significant effects on escitalopram metabolism. However, there are limited *in vivo* data suggesting a modest CYP2D6 inhibitory effect for escitalopram, i.e., coadministration of escitalopram (20 mg/day for 21 days) with the tricyclic antidepressant desipramine (single dose of 50 mg), a substrate for CYP2D6, resulted in a 40% increase in C_{max} and a 100% increase in AUC of desipramine. The clinical significance of this finding is unknown. Nevertheless, caution is indicated in the coadministration of escitalopram and drugs metabolized by CYP2D6.

7.20 Metoprolol

Administration of 20 mg/day escitalopram oxalate for 21 days in healthy volunteers resulted in a 50% increase in C_{max} and 82% increase in AUC of the beta-adrenergic blocker metoprolol (given in a single dose of 100 mg). Increased metoprolol plasma levels have been associated with decreased cardioselectivity. Coadministration of escitalopram oxalate and metoprolol had no clinically significant effects on blood pressure or heart rate.

7.21 Electroconvulsive Therapy (ECT)

There are no clinical studies of the combined use of ECT and escitalopram.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Exposure Registry

There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to

antidepressants during pregnancy. Healthcare providers are encouraged to register patients by calling the

National Pregnancy Registry for Antidepressants at 1-844-405-6185 or visiting online at

<https://womensmentalhealth.org/clinical-and-research-programs/pregnancyregistry/antidepressants/>

Risk Summary

Available data from published epidemiologic studies and postmarketing reports have not established an

increased risk of major birth defects or miscarriage. There are risks of persistent pulmonary hypertension of

the newborn (PPHN) (see Data) and poor neonatal adaptation (see Clinical Considerations) with exposure

to selective serotonin reuptake inhibitors (SSRIs), including escitalopram oxalate, during pregnancy. There

are risks associated with untreated depression in pregnancy (see Clinical Considerations).

In animal reproduction studies, both escitalopram and racemic citalopram have been shown to have

adverse effects on embryo/fetal and postnatal development, including fetal structural abnormalities, when

administered at doses greater than human therapeutic doses (see Data).

The estimated 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 the

clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Clinical Considerations

Disease-associated maternal risk and/or embryo/fetal risk

Women who discontinue antidepressants are more likely to experience a relapse of major depression than

women who continue antidepressants. This finding is from a prospective longitudinal study of 201

pregnant women with a history of major depression, who were euthymic and taking antidepressants at the

beginning of pregnancy. Consider the risk of untreated depression when discontinuing or changing

treatment with antidepressant medication during pregnancy and postpartum.

Fetal/Neonatal adverse reactions

Neonates exposed to SSRIs or SNRIs, including escitalopram oxalate, late in third trimester have

developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Such

complications can arise immediately upon delivery. Reported clinical findings have included respiratory

distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycemia,

hypotonia, hypertonia, hyperreflexia, tremor, jitteriness, irritability, and constant crying. These features are

consistent with either a direct toxic effect of SSRIs and SNRIs or, possibly, a drug discontinuation

syndrome. It should be noted that, in some cases, the clinical picture is consistent with serotonin

syndrome [see Warnings and Precautions (5.2)].

Data

Human Data

Exposure to SSRIs, particularly later in pregnancy, may increase the risk for PPHN. PPHN occurs in 1 to 2

per 1000 live births in the general populations and is associated with substantial neonatal morbidity and

mortality.

Animal Data

In a rat embryo/fetal development study, oral administration of escitalopram (56, 112, or 150 mg/kg/day)

to pregnant animals during the period of organogenesis resulted in decreased fetal body weight and

associated delays in ossification at the two higher doses [approximately ≥ 55 times the maximum

recommended human dose (MRHD) of 20 mg/day on a mg/m² basis]. Maternal toxicity

(clinical signs and

decreased body weight gain and food consumption), mild at 56 mg/kg/day, was present at all dose levels.

The developmental no-effect dose of 56 mg/kg/day is approximately 27 times the MRHD of 20 mg on a

mg/m² basis. No malformations were observed at any of the doses tested (as high as 73 times the MRHD

on a mg/m² basis).

When female rats were treated with escitalopram (6, 12, 24, or 48 mg/kg/day) during pregnancy and

through weaning, slightly increased offspring mortality and growth retardation were noted at 48

mg/kg/day which is approximately 23 times the MRHD of 20 mg on a mg/m² basis. Slight maternal toxicity

(clinical signs and decreased body weight gain and food consumption) was seen at this dose. Slightly

increased offspring mortality was also seen at 24 mg/kg/day. The no-effect dose was 12 mg/kg/day which

is approximately 6 times the MRHD of 20 mg on a mg/m² basis.

In two rat embryo/fetal development studies, oral administration of racemic citalopram (32, 56, or 112

mg/kg/day) to pregnant animals during the period of organogenesis resulted in decreased embryo/fetal

growth and survival and an increased incidence of fetal abnormalities (including cardiovascular and

skeletal defects) at the high dose, which is approximately 18 times the MRHD of 60 mg/day on a mg/m²

basis. This dose was also associated with maternal toxicity (clinical signs, decreased body weight gain).

The developmental no-effect dose was 56 mg/kg/day is approximately 9 times the MRHD on a mg/m²

basis. In a rabbit study, no adverse effects on embryo/fetal development were observed at doses of

racemic citalopram of up to 16 mg/kg/day, or approximately 5 times the MRHD on a mg/m² basis. Thus,

developmental effects of racemic citalopram were observed at a maternally toxic dose in the rat and were

not observed in the rabbit.

When female rats were treated with racemic citalopram (4.8, 12.8, or 32 mg/kg/day)

from late gestation

through weaning, increased offspring mortality during the first 4 days after birth and persistent offspring

growth retardation were observed at the highest dose, which is approximately 5 times the MRHD of 60 mg

on a mg/m² basis. The no-effect dose was 12.8 mg/kg/day is approximately 2 times the MRHD on a mg/m²

basis. Similar effects on offspring mortality and growth were seen when dams were treated throughout

gestation and early lactation at doses ≥ 24 mg/kg/day, approximately 4 times the MRHD on a mg/m² basis.

A no-effect dose was not determined in that study.

8.2 Lactation

Risk Summary

Data from the published literature report the presence of escitalopram and desmethylescitalopram in

human milk (see Data). There are reports of excessive sedation, restlessness, agitation, poor feeding and

poor weight gain in infants exposed to escitalopram, through breast milk (see Clinical Considerations).

There are no data on the effects of escitalopram or its metabolites on milk production. The developmental

and health benefits of breastfeeding should be considered along with the mother's clinical need for

escitalopram oxalate and any potential adverse effects on the breastfed child from escitalopram oxalate or

from the underlying maternal condition.

Clinical Considerations

Infants exposed to escitalopram oxalate should be monitored for excess sedation, restlessness, agitation,

poor feeding and poor weight gain.

Data

A study of 8 nursing mothers on escitalopram with daily doses of 10 to 20 mg/day showed that exclusively

breast-fed infants receive approximately 3.9% of the maternal weight-adjusted dose of escitalopram and

1.7% of the maternal weight-adjusted dose of desmethylescitalopram.

8.4 Pediatric Use

The safety and effectiveness of escitalopram oxalate have been established in adolescents (12 to 17 years

of age) for the treatment of major depressive disorder [see Clinical Studies (14.1)]. Although maintenance

efficacy in adolescent patients with major depressive disorder has not been systematically evaluated,

maintenance efficacy can be extrapolated from adult data along with comparisons of escitalopram

pharmacokinetic parameters in adults and adolescent patients.

The safety and effectiveness of escitalopram oxalate have not been established in pediatric (younger than

12 years of age) patients with major depressive disorder. In a 24-week, open-label safety study in 118

children (aged 7 to 11 years) who had major depressive disorder, the safety findings were consistent with

the known safety and tolerability profile for escitalopram oxalate.

Safety and effectiveness of escitalopram oxalate has not been established in pediatric patients less than 18

years of age with Generalized Anxiety Disorder.

Decreased appetite and weight loss have been observed in association with the use of SSRIs.

Consequently, regular monitoring of weight and growth should be performed in children and adolescents

treated with an SSRI such as escitalopram oxalate.

8.5 Geriatric Use

Approximately 6% of the 1144 patients receiving escitalopram in controlled trials of escitalopram oxalate

in major depressive disorder and GAD were 60 years of age or older; elderly patients in these trials received

daily doses of escitalopram oxalate between 10 and 20 mg. The number of elderly patients in these trials

was insufficient to adequately assess for possible differential efficacy and safety measures on the basis of

age. Nevertheless, greater sensitivity of some elderly individuals to effects of escitalopram oxalate cannot

be ruled out.

SSRIs and SNRIs, including escitalopram oxalate, have been associated with cases of

clinically significant

hyponatremia in elderly patients, who may be at greater risk for this adverse event [see Hyponatremia (5.6)].

In two pharmacokinetic studies, escitalopram half-life was increased by approximately 50% in elderly

subjects as compared to young subjects and C_{max} was unchanged [see Clinical Pharmacology (12.3)]. 10

mg/day is the recommended dose for elderly patients [see Dosage and Administration (2.3)].

Of 4422 patients in clinical studies of racemic citalopram, 1357 were 60 and over, 1034 were 65 and over,

and 457 were 75 and over. No overall differences in safety or effectiveness were observed between these

subjects and younger subjects, and other reported clinical experience has not identified differences in

responses between the elderly and younger patients, but again, greater sensitivity of some elderly

individuals cannot be ruled out.

9 DRUG ABUSE AND DEPENDENCE

9.2 Abuse and Dependence

Physical and Psychological Dependence

Animal studies suggest that the abuse liability of racemic citalopram is low. Escitalopram oxalate has not been systematically studied in humans for its potential for abuse, tolerance, or physical dependence. The premarketing clinical experience with escitalopram oxalate did not reveal any drug-seeking behavior. However, these observations were not systematic and it is not possible to predict on the basis of this limited experience the extent to which a CNS-active drug will be misused, diverted, and/or abused once marketed. Consequently, physicians should carefully evaluate escitalopram oxalate patients for history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse (e.g., development of tolerance, incrementations of dose, drug-seeking behavior).

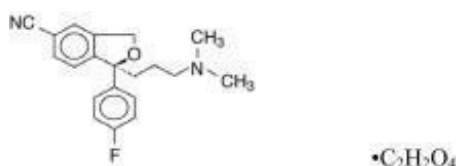
10 OVERDOSAGE

The following have been reported with escitalopram oxalate tablet overdose: • Seizures, which may be delayed, and altered mental status including coma. • Cardiovascular toxicity, which may be delayed, including QRS and QTc interval prolongation, wide complex tachyarrhythmias, and torsade de pointes. Hypertension most commonly seen, but rarely can see hypotension alone or with co-ingestants including alcohol. • Serotonin syndrome (patients with a multiple drug overdose with other proserotonergic drugs may have a higher risk). Prolonged cardiac monitoring is

recommended in escitalopram oxalate overdosage ingestions due to the arrhythmia risk. Gastrointestinal decontamination with activated charcoal should be considered in patients who present early after a escitalopram oxalate overdose. Consider contacting a poison center (1-800-221-2222) or a medical toxicologist for overdosage management recommendations.

11 DESCRIPTION

Escitalopram oxalate, an orally administered selective serotonin reuptake inhibitor (SSRI). Escitalopram is the pure S-enantiomer (single isomer) of the racemic bicyclic phthalane derivative citalopram. Escitalopram oxalate is designated S-(+)-1-[3-(dimethylamino)propyl]-1-(p-fluorophenyl)-5-phthalanecarbonitrile oxalate with the following structural formula:



The molecular formula is $\text{C}_{20}\text{H}_{21}\text{FN}_2\text{O} \cdot \text{C}_2\text{H}_2\text{O}_4$ and the molecular weight is 414.40.

Escitalopram oxalate occurs as a fine, white to slightly-yellow powder and is freely soluble in methanol and dimethyl sulfoxide (DMSO), soluble in isotonic saline solution, sparingly soluble in water and ethanol, slightly soluble in ethyl acetate, and insoluble in heptane.

Escitalopram oxalate is available as tablets for oral administration.

Escitalopram tablets, USP are film-coated, round tablets containing 6.38 mg, 12.75 mg, 25.50 mg escitalopram oxalate in strengths equivalent to 5 mg, 10 mg, and 20 mg, respectively of escitalopram base. The 10 and 20 mg tablets are scored. The tablets also contain the following inactive ingredients: croscarmellose sodium, microcrystalline cellulose, hypromellose, colloidal anhydrous silica, magnesium stearate and talc. The film coating contains hypromellose, titanium dioxide, and polyethylene glycol.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism of antidepressant action of escitalopram, the S-enantiomer of racemic citalopram, is presumed to be linked to potentiation of serotonergic activity in the central nervous system (CNS) resulting from its inhibition of CNS neuronal reuptake of serotonin (5-HT).

12.2 Pharmacodynamics

In vitro and *in vivo* studies in animals suggest that escitalopram is a highly selective serotonin reuptake inhibitor (SSRI) with minimal effects on norepinephrine and dopamine neuronal reuptake. Escitalopram is at least 100-fold more potent than the R-enantiomer

with respect to inhibition of 5-HT reuptake and inhibition of 5-HT neuronal firing rate. Tolerance to a model of antidepressant effect in rats was not induced by long-term (up to 5 weeks) treatment with escitalopram. Escitalopram has no or very low affinity for serotonergic (5-HT₁₋₇) or other receptors including alpha- and beta-adrenergic, dopamine (D₁₋₅), histamine (H₁₋₃), muscarinic (M₁₋₅), and benzodiazepine receptors. Escitalopram also does not bind to, or has low affinity for, various ion channels including Na⁺, K⁺, Cl⁻, and Ca⁺⁺ channels. Antagonism of muscarinic, histaminergic, and adrenergic receptors has been hypothesized to be associated with various anticholinergic, sedative, and cardiovascular side effects of other psychotropic drugs.

12.3 Pharmacokinetics

The single- and multiple-dose pharmacokinetics of escitalopram are linear and dose-proportional in a dose range of 10 to 30 mg/day. Biotransformation of escitalopram is mainly hepatic, with a mean terminal half-life of about 27 to 32 hours. With once-daily dosing, steady state plasma concentrations are achieved within approximately one week. At steady state, the extent of accumulation of escitalopram in plasma in young healthy subjects was 2.2 to 2.5 times the plasma concentrations observed after a single dose. The tablet and the oral solution dosage forms of escitalopram oxalate are bioequivalent.

Absorption and Distribution

Following a single oral dose (20 mg tablet or solution) of escitalopram, peak blood levels occur at about 5 hours. Absorption of escitalopram is not affected by food.

The absolute bioavailability of citalopram is about 80% relative to an intravenous dose, and the volume of distribution of citalopram is about 12 L/kg. Data specific on escitalopram are unavailable.

The binding of escitalopram to human plasma proteins is approximately 56%.

Metabolism and Elimination

Following oral administrations of escitalopram, the fraction of drug recovered in the urine as escitalopram and S-demethylcitalopram (S-DCT) is about 8% and 10%, respectively. The oral clearance of escitalopram is 600 mL/min, with approximately 7% of that due to renal clearance.

Escitalopram is metabolized to S-DCT and S-didemethylcitalopram (S-DDCT). In humans, unchanged escitalopram is the predominant compound in plasma. At steady state, the concentration of the escitalopram metabolite S-DCT in plasma is approximately one-third that of escitalopram. The level of S-DDCT was not detectable in most subjects. *In vitro* studies show that escitalopram is at least 7 and 27 times more potent than S-DCT and S-DDCT, respectively, in the inhibition of serotonin reuptake, suggesting that the metabolites of escitalopram do not contribute significantly to the antidepressant actions of escitalopram. S-DCT and S-DDCT also have no or very low affinity for serotonergic (5-HT₁₋₇) or other receptors including alpha- and beta-adrenergic, dopamine (D₁₋₅), histamine (H₁₋₃), muscarinic (M₁₋₅), and benzodiazepine receptors. S-DCT and S-DDCT also do not bind to various ion channels including Na⁺, K⁺, Cl⁻, and Ca⁺⁺ channels.

In vitro studies using human liver microsomes indicated that CYP3A4 and CYP2C19 are the primary isozymes involved in the N-demethylation of escitalopram.

Population Subgroups

Age

Adolescents - In a single dose study of 10 mg escitalopram, AUC of escitalopram decreased by 19%, and C_{max} increased by 26% in healthy adolescent subjects (12 to 17 years of age) compared to adults. Following multiple dosing of 40 mg/day citalopram, escitalopram elimination half-life, steady-state C_{max} and AUC were similar in patients with MDD (12 to 17 years of age) compared to adult patients. No adjustment of dosage is needed in adolescent patients.

Elderly - Escitalopram pharmacokinetics in subjects ≥ 65 years of age were compared to younger subjects in a single-dose and a multiple-dose study. Escitalopram AUC and half-life were increased by approximately 50% in elderly subjects, and C_{max} was unchanged. 10 mg is the recommended dose for elderly patients [see *Dosage and Administration* (2.3)2.3)].

Gender - Based on data from single- and multiple-dose studies measuring escitalopram in elderly, young adults, and adolescents, no dosage adjustment on the basis of gender is needed.

Reduced hepatic function - Citalopram oral clearance was reduced by 37% and half-life was doubled in patients with reduced hepatic function compared to normal subjects. 10 mg is the recommended dose of escitalopram for most hepatically impaired patients [see *Dosage and Administration* (2.3)].

Reduced renal function - In patients with mild to moderate renal function impairment, oral clearance of citalopram was reduced by 17% compared to normal subjects. No adjustment of dosage for such patients is recommended. No information is available about the pharmacokinetics of escitalopram in patients with severely reduced renal function (creatinine clearance < 20 mL/min).

Drug-Drug Interactions

In vitro enzyme inhibition data did not reveal an inhibitory effect of escitalopram on CYP3A4, -1A2, -2C9, -2C19, and -2E1. Based on *in vitro* data, escitalopram would be expected to have little inhibitory effect on *in vivo* metabolism mediated by these cytochromes. While *in vivo* data to address this question are limited, results from drug interaction studies suggest that escitalopram, at a dose of 20 mg, has no 3A4 inhibitory effect and a modest 2D6 inhibitory effect. See *Drug Interactions* (7.18) for more detailed information on available drug interaction data.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Racemic citalopram was administered in the diet to NMRI/BOM strain mice and COBS WI strain rats for 18 and 24 months, respectively. There was no evidence for carcinogenicity of racemic citalopram in mice receiving up to 240 mg/kg/day. There was an increased incidence of small intestine carcinoma in rats receiving 8 or 24 mg/kg/day racemic citalopram. A no-effect dose for this finding was not established. The relevance of these findings to humans is unknown.

Mutagenesis

Racemic citalopram was mutagenic in the *in vitro* bacterial reverse mutation assay (Ames test) in 2 of 5 bacterial strains (Salmonella TA98 and TA1537) in the absence of metabolic activation. It was clastogenic in the *in vitro* Chinese hamster lung cell assay for chromosomal aberrations in the presence and absence of metabolic activation. Racemic citalopram was not mutagenic in the *in vitro* mammalian forward gene mutation assay (HPRT) in mouse lymphoma cells or in a coupled *in vitro/in vivo* unscheduled DNA synthesis (UDS) assay in rat liver. It was not clastogenic in the *in vitro* chromosomal aberration assay in human lymphocytes or in two *in vivo* mouse micronucleus assays.

Impairment of Fertility

When racemic citalopram was administered orally to 16 male and 24 female rats prior to and throughout mating and gestation at doses of 32, 48, and 72 mg/kg/day, mating was decreased at all doses, and fertility was decreased at doses \geq 32 mg/kg/day. Gestation duration was increased at 48 mg/kg/day.

13.2 Animal Toxicology and/or Pharmacology

Retinal Changes in Rats

Pathologic changes (degeneration/atrophy) were observed in the retinas of albino rats in the 2-year carcinogenicity study with racemic citalopram. There was an increase in both incidence and severity of retinal pathology in both male and female rats receiving 80 mg/kg/day. Similar findings were not present in rats receiving 24 mg/kg/day of racemic citalopram for two years, in mice receiving up to 240 mg/kg/day of racemic citalopram for 18 months, or in dogs receiving up to 20 mg/kg/day of racemic citalopram for one year.

Additional studies to investigate the mechanism for this pathology have not been performed, and the potential significance of this effect in humans has not been established.

Cardiovascular Changes in Dogs

In a one-year toxicology study, 5 of 10 beagle dogs receiving oral racemic citalopram doses of 8 mg/kg/day died suddenly between weeks 17 and 31 following initiation of treatment. Sudden deaths were not observed in rats at doses of racemic citalopram up to 120 mg/kg/day, which produced plasma levels of citalopram and its metabolites demethylcitalopram and didemethylcitalopram (DDCT) similar to those observed in dogs at 8 mg/kg/day. A subsequent intravenous dosing study demonstrated that in beagle dogs, racemic DDCT caused QT prolongation, a known risk factor for the observed outcome in dogs.

14 CLINICAL STUDIES

14.1 Major Depressive Disorder

Adolescents

The efficacy of escitalopram oxalate as an acute treatment for major depressive disorder in adolescent patients was established in an 8-week, flexible-dose, placebo-controlled study that compared escitalopram oxalate 10 to 20 mg/day to placebo in outpatients 12 to 17 years of age inclusive who met DSM-IV criteria for major depressive

disorder. The primary outcome was change from baseline to endpoint in the Children's Depression Rating Scale - Revised (CDRS-R). In this study, escitalopram oxalate showed statistically significant greater mean improvement compared to placebo on the CDRS-R.

The efficacy of escitalopram oxalate in the acute treatment of major depressive disorder in adolescents was established, in part, on the basis of extrapolation from the 8-week, flexible-dose, placebo-controlled study with racemic citalopram 20 to 40 mg/day. In this outpatient study in children and adolescents 7 to 17 years of age who met DSM-IV criteria for major depressive disorder, citalopram treatment showed statistically significant greater mean improvement from baseline, compared to placebo, on the CDRS-R; the positive results for this trial largely came from the adolescent subgroup.

Two additional flexible-dose, placebo-controlled MDD studies (one escitalopram oxalate study in patients ages 7 to 17 and one citalopram study in adolescents) did not demonstrate efficacy.

Although maintenance efficacy in adolescent patients has not been systematically evaluated, maintenance efficacy can be extrapolated from adult data along with comparisons of escitalopram pharmacokinetic parameters in adults and adolescent patients.

Adults

The efficacy of escitalopram oxalate as a treatment for major depressive disorder was established in three, 8-week, placebo-controlled studies conducted in outpatients between 18 and 65 years of age who met DSM-IV criteria for major depressive disorder. The primary outcome in all three studies was change from baseline to endpoint in the Montgomery Asberg Depression Rating Scale (MADRS).

A fixed-dose study compared 10 mg/day escitalopram oxalate and 20 mg/day escitalopram oxalate to placebo and 40 mg/day citalopram. The 10 mg/day and 20 mg/day escitalopram oxalate treatment groups showed statistically significant greater mean improvement compared to placebo on the MADRS. The 10 mg and 20 mg escitalopram oxalate groups were similar on this outcome measure.

In a second fixed-dose study of 10 mg/day escitalopram oxalate and placebo, the 10 mg/day escitalopram oxalate treatment group showed statistically significant greater mean improvement compared to placebo on the MADRS.

In a flexible-dose study, comparing escitalopram oxalate, titrated between 10 and 20 mg/day, to placebo and citalopram, titrated between 20 and 40 mg/day, the escitalopram oxalate treatment group showed statistically significant greater mean improvement compared to placebo on the MADRS.

Analyses of the relationship between treatment outcome and age, gender, and race did not suggest any differential responsiveness on the basis of these patient characteristics.

In a longer-term trial, 274 patients meeting (DSM-IV) criteria for major depressive disorder, who had responded during an initial 8-week, open-label treatment phase with escitalopram oxalate 10 or 20 mg/day, were randomized to continuation of escitalopram oxalate at their same dose, or to placebo, for up to 36 weeks of observation for relapse. Response during the open-label phase was defined by having a decrease of the MADRS total score to ≤ 12 . Relapse during the double-blind phase was defined as an increase of the MADRS total score to ≥ 22 , or discontinuation due to insufficient clinical response. Patients receiving continued escitalopram oxalate experienced a statistically significant

longer time to relapse compared to those receiving placebo.

14.2 Generalized Anxiety Disorder

The efficacy of escitalopram oxalate in the acute treatment of Generalized Anxiety Disorder (GAD) was demonstrated in three, 8-week, multicenter, flexible-dose, placebo-controlled studies that compared escitalopram oxalate 10 to 20 mg/day to placebo in adult outpatients between 18 and 80 years of age who met DSM-IV criteria for GAD. In all three studies, escitalopram oxalate showed statistically significant greater mean improvement compared to placebo on the Hamilton Anxiety Scale (HAM-A).

There were too few patients in differing ethnic and age groups to adequately assess whether or not escitalopram oxalate has differential effects in these groups. There was no difference in response to escitalopram oxalate between men and women.

16 HOW SUPPLIED/STORAGE AND HANDLING

5 mg Tablets:

Bottle of 100	NDC 68001-454-00
Bottle of 1,000	NDC 68001-454-08

White to off-white, round, biconvex, film coated tablets, debossed with "5" on one side and plain on other side

1. 10 mg Tablets:

2. Bottle of 100	NDC 68001-455-00
3. Bottle of 1,000	NDC 68001-455-08

White to off-white, round, biconvex, film -coated tablets, debossed with "10" on one side and break line on other side.

1. 20 mg Tablets:

2. Bottle of 100	NDC 68001-456-00
3. Bottle of 1,000	NDC 68001-456-08

4. White to off-white, round, biconvex, film coated tablets, debossed with "20" on one side and break line on other side.

Storage and Handling

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

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

Suicidal Thoughts and Behaviors

Advise patients, their families and caregivers to look for the emergence of suicidal ideation and behavior,

especially during treatment and when the dose is adjusted up or down, and instruct them to report such

symptoms to their healthcare provider [see Boxed Warning and Warnings and

Precautions (5.1)].

Serotonin Syndrome

Patients should be cautioned about the risk of serotonin syndrome with the concomitant use of

escitalopram oxalate with other serotonergic drugs including triptans, tricyclic antidepressants, fentanyl,

lithium, tramadol, tryptophan, buspirone, amphetamines and St. John's Wort, and with drugs that impair

metabolism of serotonin (in particular, MAOIs, both those intended to treat psychiatric disorders and also

others, such as linezolid) [see Warnings and Precautions (5.2)].

Activation of Mania or Hypomania

Advise patients and their caregivers to observe for signs of activation of mania/hypomania and instruct

them to report such symptoms to the healthcare provider [see Warnings and Precautions (5.5)].

Abnormal Bleeding

Patients should be cautioned about the concomitant use of escitalopram oxalate and NSAIDs, aspirin, warfarin, or other drugs that affect coagulation since combined use of psychotropic drugs that interfere with serotonin reuptake and these agents has been associated with an increased risk of bleeding [see Warnings and Precautions (5.7)].

Angle Closure Glaucoma

Patients should be advised that taking escitalopram oxalate can cause mild pupillary dilation, which in susceptible individuals, can lead to an episode of angle closure glaucoma. Pre-existing glaucoma is almost always open-angle glaucoma because angle closure glaucoma, when diagnosed, can be treated definitively with iridectomy. Open-angle glaucoma is not a risk factor for angle closure glaucoma. Patients may wish to be examined to determine whether they are susceptible to angle closure, and have a prophylactic procedure (e.g., iridectomy), if they are susceptible [see Warnings and Precautions (5.9)].

Sexual Dysfunction

Advise patients that use of escitalopram oxalate may cause symptoms of sexual dysfunction in both male and female patients. Inform patients that they should discuss any changes in sexual function and potential management strategies with their healthcare provider [see Warnings and Precautions (5.11)].

Concomitant Medications

Since escitalopram is the active isomer of racemic citalopram (Celexa), the two agents should not be coadministered. Patients should be advised to inform their physician if they are taking, or plan to take, any prescription or over-the-counter drugs, as there is a potential for interactions.

Continuing the Therapy Prescribed

While patients may notice improvement with escitalopram oxalate therapy in 1 to 4 weeks, they should be advised to continue therapy as directed.

Interference with Psychomotor Performance

Because psychoactive drugs may impair judgment, thinking, or motor skills, patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that escitalopram oxalate therapy does not affect their ability to engage in such activities.

Alcohol

Patients should be told that, although escitalopram oxalate has not been shown in experiments with normal subjects to increase the mental and motor skill impairments caused by alcohol, the concomitant use of escitalopram oxalate and alcohol in depressed patients is not advised.

Pregnancy

Advise pregnant women to notify their healthcare providers if they become pregnant or intend to become pregnant during treatment with escitalopram oxalate.

Advise patients that escitalopram oxalate use later in pregnancy may lead to increased risk for neonatal complications requiring prolonged hospitalization, respiratory support, tube feeding, and/or persistent pulmonary hypertension (PPHN) of the newborn [see Use in Specific Populations (8.1)].

Advise women that there is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to escitalopram oxalate during pregnancy [see Use in Specific Populations (8.1)].

Lactation

Advise breastfeeding women using escitalopram oxalate to monitor infants for excess sedation, restlessness, agitation, poor feeding and poor weight gain and to seek medical care if they notice these signs [see Use in Specific Populations (8.2)].

Need for Comprehensive Treatment Program

Escitalopram oxalate is indicated as an integral part of a total treatment program for MDD that may include other measures (psychological, educational, social) for patients with this syndrome. Drug treatment may not be indicated for all adolescents with this syndrome. Safety and effectiveness of escitalopram oxalate in MDD has not been established in pediatric patients less than 12 years of age. Antidepressants are not intended for use in the adolescent who exhibits symptoms secondary to environmental factors and/or other primary psychiatric disorders. Appropriate educational placement is essential and psychosocial intervention is often helpful. When remedial measures alone are insufficient, the decision to prescribe antidepressant medication will depend upon the physician's assessment of the chronicity and severity of the patient's symptoms.

1. This Medication Guide has been approved by the U.S. Food and Drug Administration.

2. **Manufactured By:**

3. Intas Pharmaceuticals Limited,
4. Plot No. 5 to 14, Pharmez,
5. Sarkhej-Bavla, National Highway No. 8-A,
6. Near Village Matoda, Tal Sanand,

7. Ahmedabad -382 213, Gujarat, India.
8. For BluePoint Laboratories

Revised November 2021

Medication

Guide

Escitalopram

Tablets

(ES-sye-TAL-

oh-pram)

Read the Medication Guide that comes with escitalopram tablets before you start taking it and each time you get a refill. There may be new information. This Medication Guide does not take the place of talking to your healthcare provider about your medical condition or treatment. Talk with your healthcare provider if there is something you do not understand or want to learn more about.

1. **What is the most important information I should know about escitalopram tablets?**

Escitalopram tablets and other antidepressant medicines may cause serious side effects, including:

2. **Suicidal thoughts or actions:**

3. **Escitalopram tablets and other antidepressant medicines may increase suicidal thoughts or actions** in some children, teenagers or young adults within the **first few months of treatment or when the dose is changed.**

4. Depression or other serious mental illnesses are the most important causes of suicidal thoughts or actions.

5. Watch for these changes and call your healthcare provider right away if you notice:

6. New or sudden changes in mood, behavior, actions, thoughts, or feelings, especially if severe.

7. Pay particular attention to such changes when escitalopram tablet is started or when the dose is changed.

Keep all follow-up visits with your healthcare provider and call between visits if you are worried about symptoms.

Call your healthcare provider right away if you have any of the following symptoms, or call 911 if an emergency, especially if they are new, worse, or worry you:

- attempts to commit suicide
- acting on dangerous impulses
- acting aggressive or violent
- thoughts about suicide or dying
- new or worse depression
- new or worse anxiety or panic attacks
- feeling agitated, restless, angry or irritable
- trouble sleeping
- an increase in activity or talking more than what is normal for you
- other unusual changes in behavior or mood

Call your healthcare provider right away if you have any of the following symptoms, or call 911 if an emergency. Escitalopram tablets may be associated with these serious side effects:

1. **Serotonin Syndrome. This condition can be life-threatening and may include:**
 2. agitation, hallucinations, coma or other changes in mental status
 3. coordination problems or muscle twitching (overactive reflexes)
 4. racing heartbeat, high or low blood pressure
 5. sweating or fever
 6. nausea, vomiting, or diarrhea
 7. muscle rigidity
8. **Severe allergic reactions:**
 9. trouble breathing
 10. swelling of the face, tongue, eyes or mouth
 11. rash, itchy welts (hives) or blisters, alone or with fever or joint pain
12. **Abnormal bleeding:** Escitalopram tablets and other antidepressant medicines may increase your risk of bleeding or bruising, especially if you take the blood thinner warfarin (Coumadin[®], Jantoven[®]), a non-steroidal antiinflammatory drug (NSAIDs, like ibuprofen or naproxen), or aspirin.
13. **Seizures or convulsions**
14. **Manic episodes:**
 15. greatly increased energy
 16. severe trouble sleeping
 17. racing thoughts
 18. reckless behavior
 19. unusually grand ideas
 20. excessive happiness or irritability
 21. talking more or faster than usual
22. **Changes in appetite or weight.** Children and adolescents should have height and weight monitored during treatment.
23. **Low salt (sodium) levels in the blood.** Elderly people may be at greater risk for this. Symptoms may include:
 24. headache
 25. weakness or feeling unsteady
 26. confusion, problems concentrating or thinking or memory problems
27. **Visual problems.**
 28. eye pain
 29. changes in vision
 30. swelling or redness in or around the eye

Only some people are at risk for these problems. You may want to undergo an eye examination to see if you are at risk and receive preventative treatment if you are.

1. **Sexual Dysfunction.** Taking selective serotonin reuptake inhibitors (SSRIs), including escitalopram tablets, may cause sexual problems.
 2. Symptoms in males may include:
 3. Delayed in ejaculation or inability to have an ejaculation
 4. Decreased sex drive
 5. Problems getting or keeping an erection

6. Symptoms in females may include:
7. Decreased sex drive
8. Delayed orgasm or inability to have an orgasm
9. Talk to your healthcare provider if you develop any changes in your sexual function or if you have any questions or concerns about sexual problems during treatment with escitalopram tablets. There may be treatments your healthcare provider can suggest.

Do not stop escitalopram tablets without first talking to your healthcare provider.

Stopping escitalopram tablets too quickly may cause serious symptoms including:

- anxiety, irritability, high or low mood, feeling restless or changes in sleep habits
- headache, sweating, nausea, dizziness
- electric shock-like sensations, shaking, confusion

• **What are escitalopram tablets?**

Escitalopram tablet is a prescription medicine used to treat depression. It is important to talk with your healthcare provider about the risks of treating depression and also the risks of not treating it. You should discuss all treatment choices with your healthcare provider.

Escitalopram tablets are also used to treat:

- Major Depressive Disorder (MDD)
- Generalized Anxiety Disorder (GAD)
- Talk to your healthcare provider if you do not think that your condition is getting better with escitalopram tablets treatment.

Who should not take escitalopram tablets?

Do not take escitalopram tablets if you:

- are allergic to escitalopram or citalopram or any of the ingredients in escitalopram tablets. See the end of this Medication Guide for a complete list of ingredients in escitalopram tablets.
- Take a monoamine oxidase inhibitor (MAOI). Ask your healthcare provider or a pharmacist if you are not sure if you take an MAOI, including linezolid.
- Do not take an MAOI within 2 weeks of stopping escitalopram tablets unless directed to do so by your physician.
- Do not start escitalopram tablets if you stopped taking an MAOI in the last 2 weeks unless directed to do so by your physician.

People who take escitalopram tablets close in time to an MAOI may have serious or even life-threatening side effects. Get medical help right away if you have any of these symptoms:

- high fever
- uncontrolled muscle spasms
- stiff muscles
- rapid changes in heart rate or blood pressure
- confusion
- loss of consciousness (pass out)

Do not take escitalopram tablets with Orap[®] (pimozide) because taking these two drugs together can cause serious heart problems.

1. What should I tell my healthcare provider before taking escitalopram tablets? Ask if you are not sure.

Before starting escitalopram tablets, tell your healthcare provider if you:

2. Are taking certain drugs such as:
3. Triptans used to treat migraine headache
4. Medicines used to treat mood, anxiety, psychotic or thought disorders, including tricyclics, lithium, SSRIs, SNRIs, amphetamines, or antipsychotics
5. Tramadol
6. Over-the-counter supplements such as tryptophan or St. John's Wort
7. have liver problems
8. have kidney problems
9. have heart problems
10. have or had seizures or convulsions
11. have bipolar disorder or mania
12. have low sodium levels in your blood
13. have a history of a stroke
14. have high blood pressure
15. have or had bleeding problems
16. are pregnant or plan to become pregnant. Taking escitalopram oxalate late in pregnancy may lead to an increased risk of certain problems in your newborn. Talk to your healthcare provider about the benefits and risks of treating depression during pregnancy.
17. If you become pregnant while taking escitalopram oxalate, talk to your healthcare provider about registering with the National Pregnancy Registry for Antidepressants. You can register by calling 1-844-405-6185 or go to <https://womensmentalhealth.org/clinical-and-research-programs/pregnancyregistry/antidepressants/>.
18. Are breast-feeding or plan to breast-feed. Escitalopram oxalate may pass into your breast milk. Talk to your healthcare provider about the best way to feed your baby if taking escitalopram tablets.

Tell your healthcare provider about all the medicines that you take, including prescription and non-prescription medicines, vitamins, and herbal supplements. Escitalopram tablets and some medicines may interact with each other, may not work as well, or may cause serious side effects.

Your healthcare provider or pharmacist can tell you if it is safe to take escitalopram tablets with your other medicines. Do not start or stop any medicine while taking escitalopram tablets without talking to your healthcare provider first.

1. If you take escitalopram tablets, you should not take any other medicines that contain escitalopram or citalopram including: Celexa.

How should I take escitalopram tablets?

- Take escitalopram tablets exactly as prescribed. Your healthcare provider may need to change the dose of escitalopram tablets until it is the right dose for you.
- Escitalopram tablets may be taken with or without food.
- If you miss a dose of escitalopram tablets, take the missed dose as soon as you

remember. If it is almost time for the next dose, skip the missed dose and take your next dose at the regular time. Do not take two doses of escitalopram tablets at the same time.

- If you take too much escitalopram tablets, call your healthcare provider or poison control center right away, or get emergency treatment.
- **What should I avoid while taking escitalopram tablets?**
Escitalopram tablets can cause sleepiness or may affect your ability to make decisions, think clearly, or react quickly. You should not drive, operate heavy machinery, or do other dangerous activities until you know how escitalopram tablets affects you. Do not drink alcohol while using escitalopram tablets.

- **What are the possible side effects of escitalopram tablets?**

Escitalopram tablets may cause serious side effects, including all of those described in the section entitled “What is the most important information I should know about escitalopram tablets?”

Common possible side effects in people who take escitalopram tablets include:

- Nausea
- Sleepiness
- Weakness
- Dizziness
- Feeling anxious
- Trouble sleeping
- Sexual problems
- Sweating
- Shaking
- Not feeling hungry
- Dry mouth
- Constipation
- Infection
- Yawning
- Other side effects in children and adolescents include:
 - increased thirst
 - abnormal increase in muscle movement or agitation
 - nose bleed
 - difficult urination
 - heavy menstrual periods
 - possible slowed growth rate and weight change.

Your child’s height and weight should be monitored during treatment with escitalopram tablets.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away. These are not all the possible side effects of escitalopram tablets. For more information, ask your healthcare provider or pharmacist.

CALL YOUR DOCTOR FOR MEDICAL ADVICE ABOUT SIDE EFFECTS. YOU MAY REPORT SIDE EFFECTS TO THE FDA AT 1-800-FDA-1088.

How should I store escitalopram tablets?

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

- Keep escitalopram tablets bottle closed tightly.

Keep escitalopram tablets and all medicines out of the reach of children.

1. General information about escitalopram tablets

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use escitalopram tablets for a condition for which it was not prescribed. Do not give escitalopram tablets to other people, even if they have the same condition. It may harm them.

This Medication Guide summarizes the most important information about escitalopram tablets. If you would like more information, talk with your healthcare provider. You may ask your healthcare provider or pharmacist for information about escitalopram tablets that is written for healthcare professionals.

2. For more information, go to www.accordhealthcare.us or call Accord Healthcare Inc. at 1-866-941-7875.

3. What are the ingredients in escitalopram tablets?

Active ingredient: escitalopram oxalate

Inactive ingredients:

4. **Tablets:** croscarmellose sodium, microcrystalline cellulose, hypromellose, colloidal anhydrous silica, magnesium stearate and talc. The film coating contains hypromellose, titanium dioxide, and polyethylene glycol.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

Coumadin[®] is registered trademark of Bristol-Myers Squibb Company.

Jantoven[®] is registered trademark of Upsher-Smith Laboratories, Inc.

Orap[®] is registered trademark of Teva Pharmaceuticals USA

1. Manufactured By

2. Intas Pharmaceuticals Limited,
3. Plot No. 5 to 14, Pharmez,
4. Sarkhej-Bavla, National Highway No. 8-A,
5. Near Village Matoda, Tal Sanand,
6. Ahmedabad -382 213, Gujarat, India.
7. For BluePoint Laboratories

Revised November 2021

PRINCIPAL DISPLAY PANEL

5 mg Tablets

100 Tablets

Each film coated tablet contains:
Escitalopram oxalate USP equivalent to
Escitalopram 5 mg
Usual dosage: See package insert for full
prescribing information.
Keep this and all drugs out of the reach of
children.
Dispense in tight container as described in
the USP.
**Store at 25°C (77°F); Excursions
permitted to 15° to 30°C (59° to
86°F) [see USP Controlled Room
Temperature].**
Manufactured by:
Intas Pharmaceuticals Limited,
Pharmez, Ahmedabad-382 213. INDIA
For BluePoint Laboratories
Rev. 07/20

NDC: 68001-454-00 Rx Only

Escitalopram Tablets USP

5 mg

Pharmacist: Dispense the enclosed
Medication Guide to each patient.

BluePoint™
LABORATORIES 100 Tablets

51 56657 0 724206 INL088 Mfg. Lic. No.: G/251883



Keep area blank & varnish free for
overcoding Lot and EXP & Data matrix
45 X 22 mm



100 %

10 mg Tablets

100 Tablets

Each film coated tablet contains:
Escitalopram oxalate USP equivalent to
Escitalopram 10 mg
Usual dosage: See package insert for full
prescribing information.
Keep this and all drugs out of the reach of
children.
Dispense in tight container as described in
the USP.
**Store at 25°C (77°F); Excursions
permitted to 15° to 30°C (59° to
86°F) [see USP Controlled Room
Temperature].**
Manufactured by:
Intas Pharmaceuticals Limited,
Pharmez, Ahmedabad-382 213. INDIA
For BluePoint Laboratories
Rev. 07/20

NDC: 68001-455-00 Rx Only

Escitalopram Tablets USP

10 mg

Pharmacist: Dispense the enclosed
Medication Guide to each patient.

BluePoint™
LABORATORIES 100 Tablets

51 56659 0 724206 INL088 Mfg. Lic. No.: G/251883



Keep area blank & varnish free for
overcoding Lot and EXP & Data matrix
45 X 22 mm



20 mg Tablets

100 Tablets

Each film coated tablet contains:
Escitalopram oxalate USP equivalent to
Escitalopram 20 mg
Usual dosage: See package insert for full
prescribing information.
Keep this and all drugs out of the reach of
children.
Dispense in tight container as described in
the USP.
Store at 25°C (77°F); Excursions
permitted to 15° to 30°C (59° to
86°F) [see USP Controlled Room
Temperature].
Manufactured by:
Intas Pharmaceuticals Limited,
Pharmez, Ahmedabad-382 213. INDIA
For BluePoint Laboratories
Rev. 07/20

NDC: 68001-456-00 Rx Only

Escitalopram Tablets USP

20 mg

Pharmacist: Dispense the enclosed
Medication Guide to each patient.

BluePoint™
LABORATORIES 100 Tablets

51 5661 0 724204 INL088 Mfg. Lic. No.: G2251883



Keep area blank & varnish free for
overcoding Lot and EXP & Data matrix
45 X 22 mm



100 %

ESCITALOPRAM

escitalopram tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68001-454
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ESCITALOPRAM OXALATE (UNII: 5U85DBW7LO) (ESCITALOPRAM - UNII:4O4S742ANY)	ESCITALOPRAM	5 mg

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
HYPROMELLOSE 2910 (15000 MPA.S) (UNII: 288VBX44JC)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	

Product Characteristics

Color	white (White to off White)	Score	no score
Shape	ROUND (biconvex)	Size	5mm
Flavor		Imprint Code	5
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68001-454-00	100 in 1 BOTTLE; Type 0: Not a Combination Product	10/01/2020	
2	NDC:68001-454-08	1000 in 1 BOTTLE; Type 0: Not a Combination Product	10/01/2020	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202389	10/01/2020	

ESCITALOPRAM

escitalopram tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68001-455
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ESCITALOPRAM OXALATE (UNII: 5U85DBW7LO) (ESCITALOPRAM - UNII:4O4S742ANY)	ESCITALOPRAM	10 mg

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
HYPROMELLOSE 2910 (15000 MPA.S) (UNII: 288VBX44JC)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	

Product Characteristics

Color	white (White to off White)	Score	2 pieces
Shape	ROUND (biconvex)	Size	8mm
Flavor		Imprint Code	10
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68001-455-00	100 in 1 BOTTLE; Type 0: Not a Combination Product	10/01/2020	
2	NDC:68001-455-08	1000 in 1 BOTTLE; Type 0: Not a Combination Product	10/01/2020	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202389	10/01/2020	

ESCITALOPRAM

escitalopram tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68001-456
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
ESCITALOPRAM OXALATE (UNII: 5U85DBW7LO) (ESCITALOPRAM - UNII:4O4S742ANY)	ESCITALOPRAM	20 mg

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
HYPROMELLOSE 2910 (15000 MPA.S) (UNII: 288VBX44JC)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
POLYETHYLENE GLYCOL 400 (UNII: B697894SGQ)	

Product Characteristics

Color	white (White to off White)	Score	2 pieces
Shape	ROUND (Biconvex)	Size	9mm
Flavor		Imprint Code	20
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68001-456-00	100 in 1 BOTTLE; Type 0: Not a Combination Product	10/01/2020	
2	NDC:68001-456-08	1000 in 1 BOTTLE; Type 0: Not a Combination Product	10/01/2020	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA202389	10/01/2020	

Labeler - BluePoint Laboratories (985523874)

Establishment

Name	Address	ID/FEI	Business Operations
Intas Pharmaceuticals Limited.		725927649	manufacture(68001-454, 68001-455, 68001-456) , analysis(68001-454, 68001-455, 68001-456)

Establishment

Name	Address	ID/FEI	Business Operations
Intas Pharmaceuticals Limited		915837971	manufacture(68001-454, 68001-455, 68001-456) , analysis(68001-454, 68001-455, 68001-456)

Revised: 1/2022

BluePoint Laboratories