# ETHACRYNIC SODIUM- ethacrynic sodium powder, for solution ETHACRYNIC ACID- ethacrynic acid tablet Oceanside Pharmaceuticals

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TABLETS
ETHACRYNIC ACID
and
INTRAVENOUS
ETHACRYNATE SODIUM

Ethacrynic acid is a potent diuretic which, if given in excessive amounts, may lead to profound diuresis with water and electrolyte depletion. Therefore, careful medical supervision is required, and dose and dose schedule must be adjusted to the individual patient's needs (see DOSAGE AND ADMINISTRATION).

#### **DESCRIPTION**

Ethacrynic acid is an unsaturated ketone derivative of an aryloxyacetic acid. It is designated chemically as [2,3-dichloro-4-(2-methylene-1-oxobutyl)phenoxy] acetic acid, and has a molecular weight of 303.14. Ethacrynic acid is a white, or practically white, crystalline powder, very slightly soluble in water, but soluble in most organic solvents such as alcohols, chloroform, and benzene. Its empirical formula is C  $_{13}$ H  $_{12}$ Cl  $_2$ O  $_4$ and its structural formula is:

Ethacrynate sodium, the sodium salt of ethacrynic acid, is soluble in water at 25°C to the extent of about 7 percent.

Solutions of the sodium salt are relatively stable at about pH 7 at room temperature for short periods, but as the pH or temperature increases the solutions are less stable. The molecular weight of ethacrynate sodium is 325.12. Its empirical formula is C  $_{13}$ H  $_{11}$ Cl  $_{2}$ NaO  $_{4}$ and its structural formula is:

Ethacrynic acid is supplied as 25 mg tablets for oral use. The tablets contain the following inactive ingredients: colloidal silicon dioxide, lactose, magnesium stearate, starch and talc.

Intravenous ethacrynate sodium is a sterile freeze-dried powder and is supplied in a vial containing:

• Ethacrynate sodium equivalent to ethacrynic acid . . . . . . . 50.0 mg

Inactive ingredient:

• Mannitol . . . . . . . . . . 62.5 mg

#### CLINICAL PHARMACOLOGY

Pharmacokinetics and Metabolism

Ethacrynic acid acts on the ascending limb of the loop of Henle and on the proximal and distal tubules. Urinary output is usually dose dependent and related to the magnitude of

fluid accumulation. Water and electrolyte excretion may be increased several times over that observed with thiazide diuretics, since ethacrynic acid inhibits reabsorption of a much greater proportion of filtered sodium than most other diuretic agents. Therefore, ethacrynic acid is effective in many patients who have significant degrees of renal insufficiency (see **WARNINGS**concerning deafness). Ethacrynic acid has little or no effect on glomerular filtration or on renal blood flow, except following pronounced reductions in plasma volume when associated with rapid diuresis.

The electrolyte excretion pattern of ethacrynic acid varies from that of the thiazides and mercurial diuretics. Initial sodium and chloride excretion is usually substantial and chloride loss exceeds that of sodium. With prolonged administration, chloride excretion declines, and potassium and hydrogen ion excretion may increase. Ethacrynic acid is effective whether or not there is clinical acidosis or alkalosis.

Although ethacrynic acid, in carefully controlled studies in animals and experimental subjects, produces a more favorable sodium/potassium excretion ratio than the thiazides, in patients with increased diuresis excessive amounts of potassium may be excreted.

Onset of action is rapid, usually within 30 minutes after an oral dose of ethacrynic acid or within 5 minutes after an intravenous injection of ethacrynate sodium. After oral use, diuresis peaks in about 2 hours and lasts about 6 to 8 hours.

The sulfhydryl binding propensity of ethacrynic acid differs somewhat from that of the organomercurials. Its mode of action is not by carbonic anhydrase inhibition.

Ethacrynic acid does not cross the blood-brain barrier.

#### INDICATIONS AND USAGE

Ethacrynic acid is indicated for treatment of edema when an agent with greater diuretic potential than those commonly employed is required.

- 1. Treatment of the edema associated with congestive heart failure, cirrhosis of the liver, and renal disease, including the nephrotic syndrome.
- 2. Short-term management of ascites due to malignancy, idiopathic edema, and lymphedema.
- 3. Short-term management of hospitalized pediatric patients, other than infants, with congenital heart disease or the nephrotic syndrome.
- 4. Intravenous ethacrynate sodium is indicated when a rapid onset of diuresis is desired, e.g., in acute pulmonary edema, or when gastrointestinal absorption is impaired or oral medication is not practicable.

#### CONTRAINDICATIONS

All diuretics, including ethacrynic acid, are contraindicated in anuria. If increasing electrolyte imbalance, azotemia, and/or oliguria occur during treatment of severe, progressive renal disease, the diuretic should be discontinued.

In a few patients this diuretic has produced severe, watery diarrhea. If this occurs, it should be discontinued and not used again.

Until further experience in infants is accumulated, therapy with oral and parenteral

ethacrynic acid is contraindicated.

Hypersensitivity to any component of this product.

#### **WARNINGS**

The effects of ethacrynic acid on electrolytes are related to its renal pharmacologic activity and are dose dependent. The possibility of profound electrolyte and water loss may be avoided by weighing the patient throughout the treatment period, by careful adjustment of dosage, by initiating treatment with small doses, and by using the drug on an intermittent schedule when possible. When excessive diuresis occurs, the drug should be withdrawn until homeostasis is restored. When excessive electrolyte loss occurs, the dosage should be reduced or the drug temporarily withdrawn.

Initiation of diuretic therapy with ethacrynic acid in the cirrhotic patient with ascites is best carried out in the hospital. When maintenance therapy has been established, the individual can be satisfactorily followed as an outpatient. Ethacrynic acid should be given with caution to patients with advanced cirrhosis of the liver, particularly those with a history of previous episodes of electrolyte imbalance or hepatic encephalopathy. Like other diuretics it may precipitate hepatic coma and death. Too vigorous a diuresis, as evidenced by rapid and excessive weight loss, may induce an acute hypotensive episode. In elderly cardiac patients, rapid contraction of plasma volume and the resultant hemoconcentration should be avoided to prevent the development of thromboembolic episodes, such as cerebral vascular thromboses and pulmonary emboli which may be fatal. Excessive loss of potassium in patients receiving digitalis glycosides may precipitate digitalis toxicity. Care should also be exercised in patients receiving potassium-depleting steroids.

A number of possibly drug-related deaths have occurred in critically ill patients refractory to other diuretics. These generally have fallen into two categories: (1) patients with severe myocardial disease who have been receiving digitalis and presumably developed acute hypokalemia with fatal arrhythmia; (2) patients with severely decompensated hepatic cirrhosis with ascites, with or without accompanying encephalopathy, who were in electrolyte imbalance and died because of intensification of the electrolyte defect.

Deafness, tinnitus, and vertigo with a sense of fullness in the ears have occurred, most frequently in patients with severe impairment of renal function. These symptoms have been associated most often with intravenous administration and with doses in excess of those recommended. The deafness has usually been reversible and of short duration (one to 24 hours). However, in some patients the hearing loss has been permanent. A number of these patients were also receiving drugs known to be ototoxic. Ethacrynic acid may increase the ototoxic potential of other drugs (see **PRECAUTIONS, Drug Interactions**).

Lithium generally should not be given with diuretics (see **PRECAUTIONS**, **Drug Interactions**).

#### **PRECAUTIONS**

#### General

Weakness, muscle cramps, paresthesias, thirst, anorexia, and signs of hyponatremia, hypokalemia, and/or hypochloremic alkalosis may occur following vigorous or excessive diuresis and these may be accentuated by rigid salt restriction. Rarely, tetany has been reported following vigorous diuresis. *During therapy with ethacrynic acid, liberalization of salt intake and supplementary potassium chloride are often necessary.* 

When a metabolic alkalosis may be anticipated, e.g., in cirrhosis with ascites, the use of potassium chloride or a potassium-sparing agent before and during therapy with ethacrynic acid may mitigate or prevent the hypokalemia.

Loop diuretics have been shown to increase the urinary excretion of magnesium; this may result in hypomagnesemia.

The safety and efficacy of ethacrynic acid in hypertension have not been established. However, the dosage of coadministered antihypertensive agents may require adjustment.

Orthostatic hypotension may occur in patients receiving other antihypertensive agents when given ethacrynic acid.

Ethacrynic acid has little or no effect on glomerular filtration or on renal blood flow, except following pronounced reductions in plasma volume when associated with rapid diuresis. A transient increase in serum urea nitrogen may occur. Usually, this is readily reversible when the drug is discontinued.

As with other diuretics used in the treatment of renal edema, hypoproteinemia may reduce responsiveness to ethacrynic acid and the use of salt-poor albumin should be considered.

A number of drugs, including ethacrynic acid, have been shown to displace warfarin from plasma protein; a reduction in the usual anticoagulant dosage may be required in patients receiving both drugs.

Ethacrynic acid may increase the risk of gastric hemorrhage associated with corticosteroid treatment.

# Laboratory Tests

Frequent serum electrolyte, CO <sub>2</sub>and BUN determinations should be performed early in therapy and periodically thereafter during active diuresis. Any electrolyte abnormalities should be corrected or the drug temporarily withdrawn.

Increases in blood glucose and alterations in glucose tolerance tests have been observed in patients receiving ethacrynic acid.

# **Drug Interactions**

Lithium generally should not be given with diuretics because they reduce its renal clearance and add a high risk of lithium toxicity. Read circulars for lithium preparations before use of such concomitant therapy.

Ethacrynic acid may increase the ototoxic potential of other drugs such as aminoglycoside and some cephalosporin antibiotics. Their concurrent use should be avoided.

A number of drugs, including ethacrynic acid, have been shown to displace warfarin

from plasma protein; a reduction in the usual anticoagulant dosage may be required in patients receiving both drugs.

In some patients, the administration of a non-steroidal anti-inflammatory agent can reduce the diuretic, natriuretic, and antihypertensive effects of loop, potassium-sparing and thiazide diuretics. Therefore, when ethacrynic acid and non-steroidal anti-inflammatory agents are used concomitantly, the patient should be observed closely to determine if the desired effect of the diuretic is obtained.

## Carcinogenesis, Mutagenesis, Impairment of Fertility

There was no evidence of a tumorigenic effect in a 79-week oral chronic toxicity study in rats at doses up to 45 times the human dose. Ethacrynic acid had no effect on fertility in a two-litter study in rats or a two-generation study in mice at 10 times the human dose.

### Pregnancy

Reproduction studies in the mouse and rabbit at doses up to 50 times the human dose showed no evidence of external abnormalities of the fetus due to ethacrynic acid.

In a two-litter study in the dog and rat, oral doses of 5 or 20 mg/kg/day ( $2\frac{1}{2}$  or 10 times the human dose), respectively, did not interfere with pregnancy or with growth and development of the pups. Although there was reduction in the mean body weights of the fetuses in a teratogenic study in the rat at a dose level of 100 mg/kg (50 times the human dose), there was no effect on mortality or postnatal development. Functional and morphologic abnormalities were not observed.

There are, however, no adequate and well-controlled studies in pregnant women. Since animal reproduction studies are not always predictive of human response, ethacrynic acid should be used during pregnancy only if clearly needed.

# **Nursing Mothers**

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from ethacrynic acid, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

#### Pediatric Use

There are no well-controlled clinical trials in pediatric patients. The information on oral dosing in pediatric patients, other than infants, is supported by evidence from empiric use in this age group.

For information on oral use in pediatric patients, other than infants, see **INDICATIONS AND USAGE** and **DOSAGE AND ADMINISTRATION**.

Safety and effectiveness of oral and parenteral use in infants have not been established (see **CONTRAINDICATIONS**).

Safety and effectiveness of intravenous use in pediatric patients have not been established (see **DOSAGE AND ADMINISTRATION, Intravenous Use**).

#### Geriatric Use

Of the total number of subjects in clinical studies of ethacrynic acid/ethacrynate sodium, approximately 224 patients (21%) were 65 to 74 years of age, while approximately 100 patients (9%) were 75 years of age 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 greater sensitivity of some older individuals cannot be ruled out. (See **WARNINGS**.)

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function. (See **CONTRAINDICATIONS**.)

#### **ADVERSE REACTIONS**

#### Gastrointestinal

Anorexia, malaise, abdominal discomfort or pain, dysphagia, nausea, vomiting, and diarrhea have occurred. These are more frequent with large doses or after one to three months of continuous therapy. A few patients have had sudden onset of profuse, watery diarrhea. Discontinue ethacrynic acid if diarrhea is severe and do not give it again. Gastrointestinal bleeding has occurred in some patients. Rarely, acute pancreatitis has been reported.

#### Metabolic

Reversible hyperuricemia and acute gout have been reported. Acute symptomatic hypoglycemia with convulsions occurred in two uremic patients who received doses above those recommended. Hyperglycemia has been reported. Rarely, jaundice and abnormal liver function tests have been reported in seriously ill patients receiving multiple drug therapy, including ethacrynic acid.

## Hematologic

Agranulocytosis or severe neutropenia has been reported in a few critically ill patients also receiving agents known to produce this effect. Thrombocytopenia has been reported rarely. Henoch-Schönlein purpura has been reported rarely in patients with rheumatic heart disease receiving multiple drug therapy, including ethacrynic acid.

#### Special Senses(see WARNINGS)

Deafness, tinnitus and vertigo with a sense of fullness in the ears, and blurred vision have occurred.

#### Central Nervous System

Headache, fatigue, apprehension, confusion.

#### Miscellaneous

Skin rash, fever, chills, hematuria.

Ethacrynate sodium occasionally has caused local irritation and pain after intravenous use.

To report SUSPECTED ADVERSE REACTIONS, contact Oceanside Pharmaceuticals at 1-800-321-4576 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

#### **OVERDOSAGE**

Overdosage may lead to excessive diuresis with electrolyte depletion and dehydration. In the event of overdosage, symptomatic and supportive measures should be employed. Emesis should be induced or gastric lavage performed. Correct dehydration, electrolyte imbalance, hepatic coma, and hypotension by established procedures. If required, give oxygen or artificial respiration for respiratory impairment.

In the mouse, the oral LD  $_{50}$ of ethacrynic acid is 627 mg/kg and the intravenous LD  $_{50}$ of ethacrynate sodium is 175 mg/kg.

#### DOSAGE AND ADMINISTRATION

Dosage must be regulated carefully to prevent a more rapid or substantial loss of fluid or electrolyte than is indicated or necessary. The magnitude of diuresis and natriuresis is largely dependent on the degree of fluid accumulation present in the patient. Similarly, the extent of potassium excretion is determined in large measure by the presence and magnitude of aldosteronism.

Oral Use

Ethacrynic acid is available for oral use as 25 mg tablets.

Dosage: To Initiate Diuresis

In Adults: The smallest dose required to produce gradual weight loss (about 1 to 2 pounds per day) is recommended. Onset of diuresis usually occurs at 50 to 100 mg for adults. After diuresis has been achieved, the minimally effective dose (usually from 50 to 200 mg daily) may be given on a continuous or intermittent dosage schedule. Dosage adjustments are usually in 25 to 50 mg increments to avoid derangement of water and electrolyte excretion.

The patient should be weighed under standard conditions before and during the institution of diuretic therapy with this compound. Small alterations in dose should effectively prevent a massive diuretic response. The following schedule may be helpful in determining the smallest effective dose.

 $\mathrm{Day}\ 1-\mathrm{50}\ \mathrm{mg}$  once daily after a meal

Day 2 - 50 mg twice daily after meals, if necessary

Day 3 - 100 mg in the morning and 50 to 100 mg following the afternoon or evening meal, depending upon response to the morning dose.

A few patients may require initial and maintenance doses as high as 200 mg twice daily. These higher doses, which should be achieved gradually, are most often required in patients with severe, refractory edema.

*In Pediatric Patients*(excluding infants, see **CONTRAINDICATIONS**): The initial dose should be 25 mg. Careful stepwise increments in dosage of 25 mg should be made to

achieve effective maintenance.

#### Maintenance Therapy

It is usually possible to reduce the dosage and frequency of administration once dry weight has been achieved.

Ethacrynic acid may be given intermittently after an effective diuresis is obtained with the regimen outlined above. Dosage may be on an alternate daily schedule or more prolonged periods of diuretic therapy may be interspersed with rest periods. Such an intermittent dosage schedule allows time for correction of any electrolyte imbalance and may provide a more efficient diuretic response.

The chloruretic effect of this agent may give rise to retention of bicarbonate and a metabolic alkalosis. This may be corrected by giving chloride (ammonium chloride or arginine chloride). Ammonium chloride should not be given to cirrhotic patients.

Ethacrynic acid has additive effects when used with other diuretics. For example, a patient who is on maintenance dosage of an oral diuretic may require additional intermittent diuretic therapy, such as an organomercurial, for the maintenance of basal weight. The intermittent use of ethacrynic acid orally may eliminate the need for injections of organomercurials. Small doses of ethacrynic acid may be added to existing diuretic regimens to maintain basal weight. This drug may potentiate the action of carbonic anhydrase inhibitors, with augmentation of natriuresis and kaliuresis. Therefore, when adding ethacrynic acid the initial dose and changes of dose should be in 25 mg increments, to avoid electrolyte depletion. Rarely, patients who failed to respond to ethacrynic acid have responded to older established agents.

While many patients do not require supplemental potassium, the use of potassium chloride or potassium-sparing agents, or both, during treatment with ethacrynic acid is advisable, especially in cirrhotic or nephrotic patients and in patients receiving digitalis.

Salt liberalization usually prevents the development of hyponatremia and hypochloremia. During treatment with ethacrynic acid, salt may be liberalized to a greater extent than with other diuretics.

Cirrhotic patients, however, usually require at least moderate salt restriction concomitant with diuretic therapy.

#### Intravenous Use

Intravenous ethacrynate sodium is for intravenous use when oral intake is impractical or in urgent conditions, such as acute pulmonary edema.

The usual intravenous dose for the average sized adult is 50 mg, or 0.5 to 1.0 mg per kg of body weight. Usually only one dose has been necessary; occasionally a second dose at a new injection site, to avoid possible thrombophlebitis, may be required. A single intravenous dose not exceeding 100 mg has been used in critical situations.

Insufficient pediatric experience precludes recommendation for this age group.

To reconstitute the dry material, add 50 mL of 5% Dextrose Injection, or Sodium Chloride Injection to the vial. Occasionally, some 5% Dextrose Injection solutions may have a low pH (below 5). The resulting solution with such a diluent may be hazy or opalescent. Intravenous use of such a solution is not recommended. Inspect the vial containing intravenous ethacrynate sodium for particulate matter and discoloration

before use.

The solution may be given slowly through the tubing of a running infusion or by direct intravenous injection over a period of several minutes. Do not mix this solution with whole blood or its derivatives. Discard unused reconstituted solution after 24 hours.

Ethacrynate sodium should not be given subcutaneously or intramuscularly because of local pain and irritation.

#### **HOW SUPPLIED**

Tablets Ethacrynic acid, 25 mg, are white, capsule shaped, scored tablets, coded VRX 205 on one side and EDECRIN on the other.

They are supplied as follows:

NDC 68682-011-10 in bottles of 100.

Intravenous Ethacrynate sodium is a dry white material either in a plug form or as a powder. It is supplied in vials containing ethacrynate sodium equivalent to 50 mg of ethacrynic acid.

NDC 68682-012-27

## Storage

Store in a tightly closed container at 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

# Tablets Ethacrynic acid Distributed by:

Oceanside Pharmaceuticals, a division of Bausch Health US, LLC Bridgewater, NJ 08807 USA

# Manufactured by:

Bausch Health Companies Inc. Steinbach, MB R5G 1Z7, Canada

# Intravenous Ethacrynate sodium Distributed by:

Oceanside Pharmaceuticals, a division of Bausch Health US, LLC Bridgewater, NJ 08807 USA

## Manufactured by:

Patheon Manufacturing Services LLC Greenville, NC 27834 USA

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Rev. 08/2020

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# **PRINCIPAL DISPLAY PANEL - Injectable**

NDC 68682-012-27

**Rx only** 

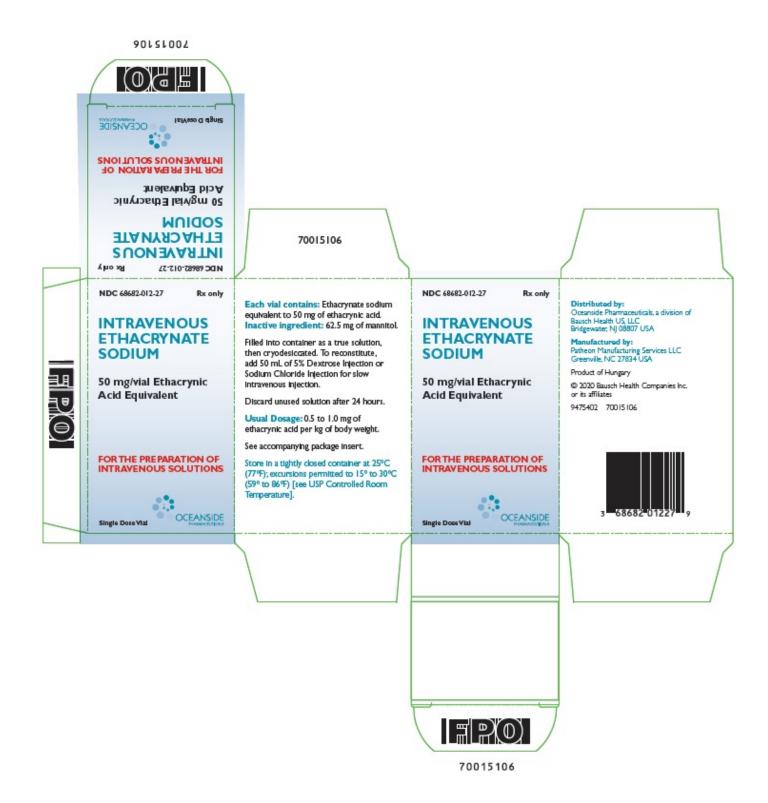
INTRAVENOUS ETHACRYNATE SODIUM

50 mg/vialEthacrynic Acid Equivalent

FOR THE PREPARATION OF INTRAVENOUS SOLUTIONS

**Single Dose Vial** 

OCEANSIDE PHARMACEUTICALS



# PACKAGE/LABEL PRINCIPAL DISPLAY PANEL- 25 mg, 100 Tablets

**NDC**68682-011-10

Rx only

ETHACRYNIC ACID TABLETS

25 mg

100 Tablets

#### **OCEANSIDE PHARMACEUTICALS**



NDC 68682-011-10 Rx only **ETHACRYNIC ACID TABLETS** 25 mg OCEANSIDE 100 Tablets

PHARMACEUTICALS

Each tablet contains: 25 mg of ethacrynic acid. Usual Dosage: See accompanying package insert. Store in a tightly closed container at 25°C (77°F), excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature]. Dispense in a well-closed container. This is a bulk package and not intended for dispensing. Package not child resistant. Distributed by: Oceanside Pharmaceuticals, a division of Bausch Health US, LLC Bridgewater, NJ 08807 USA

Manufactured by: Bausch Health Companies Inc. Steinbach, MB R5G 1Z7, Canada Product of Canada © 2020 Bausch Health Companies Inc. or its affiliates 9473502 20002953

# **ETHACRYNIC SODIUM**

ethacrynic sodium powder, for solution

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68682-012	
Route of Administration	INTRAVENOUS			

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
ETHACRYNATE SODIUM (UNII: K41MYV7MPM) (ETHACRYNIC ACID - UNII:M5DP350VZV)	ETHACRYNIC ACID	50 mg in 50 mL

Inactive Ingredients	
Ingredient Name	Strength
MANNITOL (UNII: 30WL53L36A)	62.5 mg in 50 mL

P	Packaging					
#	Item Code	Package Description	Marketing Start Date	Marketing End Date		
1	NDC:68682-012- 27	1 in 1 CARTON	01/10/1967			
1		50 mL in 1 VIAL; Type 0: Not a Combination Product				

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
DA authorized eneric	NDA016093	01/10/1967		
	NDA016093	01/10/1967		

# **ETHACRYNIC ACID**

ethacrynic acid tablet

#### **Product Information**

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68682-011	

**Route of Administration** ORAL

# **Active Ingredient/Active Moiety**

Ingredient Name	<b>Basis of Strength Strength</b>
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**ETHACRYNIC ACID** (UNII: M5DP350VZV) (ETHACRYNIC ACID - UNII:M5DP350VZV) ETHACRYNIC ACID 25 mg

# Inactive Ingredients Ingredient Name Strength SILICON DIOXIDE (UNII: ETJ7Z6XBU4) LACTOSE, UNSPECIFIED FORM (UNII: J2B2A4N98G) MAGNESIUM STEARATE (UNII: 70097M6I30) TALC (UNII: 7SEV7J4R1U)

Product Characteristics			
Color	white	Score	2 pieces
Shape	OVAL	Size	10mm
Flavor		Imprint Code	VRX;205;EDECRIN
Contains			

Packaging				
#	# Item Code Package Description		Marketing Start Date	Marketing End Date
	NDC:68682-011- 10	100 in 1 BOTTLE; Type 0: Not a Combination Product	01/10/1967	

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
NDA authorized generic	NDA016092	01/10/1967		

# **Labeler -** Oceanside Pharmaceuticals (832011691)

Establishment			
Name	Address	ID/FEI	Business Operations
Patheon Manufacturing Services LLC		079415560	manufacture(68682-012) , pack(68682-012)

Establishment			
Name	Address	ID/FEI	Business Operations
Bausch Health Companies Inc.		253292734	manufacture(68682-011) , pack(68682-011)

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