

# IROLEX Capsule

150mg

(Iron (iii) Polysaccharide Complex)

ائرولیکس کپسول  
۱۵۰ ملی گرام  
(ائرن پولی سکر ایڈ کمپلکس)

## COMPOSITION:

Each Capsule Contains: Iron (iii) Polysaccharide Complex contains  
Elemental Iron = 150mg

## INDICATIONS:

For the Prevention and treatment of Iron deficiency anemia of

- Females of Child bearing age and adolescents
- Pregnant women
- Lactating woman
- Patients with Anemia due to chronic renal failure.

## PHARMACOKINETICS:

Absorption of iron from the gut is carefully regulated. Because there is no active excretory process for iron once it has entered the bloodstream, the body's control of iron levels is undertaken at the level of the enterocyte. Iron in food, in the form of  $Fe^{3+}$ , is reduced to  $Fe^{2+}$  by duodenal cytochrome *b* in the enterocyte membrane then imported by DMT1 into the enterocyte cytoplasm, where it can either be stored as ferritin or be exported to the serum via the basolateral transport protein ferroportin [27]. This export protein is coupled to multi copper oxidases (hephaestin in the membrane or ceruloplasmin in the serum), which oxidize  $Fe^{2+}$  to  $Fe^{3+}$ , which finally is tightly bound to transferrin. The mechanism of uptake of heme iron, derived from meat, is not well understood. It has been proposed that the enterocyte membrane also contains a protein that can transport heme iron from the gut lumen into the cytosol (HCP1). However, the same protein has later been shown to be responsible for folate transport in the intestine, with a significantly higher affinity. In the enterocyte,  $Fe^{2+}$  is released from the heme in a process catalyzed by heme oxygenase and enters the same cytosolic pool as non-heme iron. Rapid iron absorption and/or high doses of oral preparations can saturate the regulated active absorption mechanisms in the intestine, leading to passive absorption, saturation of the transport protein (transferrin) and generation of weakly bound  $Fe^{3+}$  (NTBI), which can induce oxidative stress. This is highly relevant as during oral iron therapy patients usually take 2–3 tablets a day for several months and are thus exposed to oxidative stress on a daily basis for a prolonged time.

## PHARMACODYNAMICS:

The major activity of supplemental iron is in the prevention and treatment of iron deficiency anemia. Iron has putative immune-enhancing, anti carcinogenic and cognition-enhancing activities.

## MECHANISM OF ACTION:

Iron is necessary for the production of hemoglobin. Iron-deficiency can lead to decreased production of hemoglobin and a microcytic, hypochromic anemia.

## SIDE EFFECTS OF IROLEX CAPSULES:

Irolex Capsules may cause serious side effects including:

- hives,
- difficulty breathing,
- swelling of your face, lips, tongue, or throat,
- bloody or tarry stools, and
- severe stomach pain or cramps

Get medical help right away, if you have any of the symptoms listed above.  
The most common side effects of Irolex Capsules include:

- constipation,
- diarrhea,
- nausea,
- upset stomach,
- black or dark colored stools, and
- temporary staining of the teeth

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

#### **TOXICITY:**

Acute iron over dosage can be divided into four stages. In the first stage, which occurs up to six hours after ingestion, the principal symptoms are vomiting and diarrhea. Other symptoms include hypotension, tachycardia and CNS depression ranging from lethargy to coma. The second phase may occur at 6-24 hours after ingestion and is characterized by a temporary remission. In the third phase, gastrointestinal symptoms recur accompanied by shock, metabolic acidosis, coma, hepatic necrosis and jaundice, hypoglycemia, renal failure and pulmonary edema. The fourth phase may occur several weeks after ingestion and is characterized by gastrointestinal obstruction and liver damage. In a young child, 75 milligrams per kilogram is considered extremely dangerous. A dose of 30 milligrams per kilogram can lead to symptoms of toxicity. Estimates of a lethal dosage range from 180 milligrams per kilogram and upwards. A peak serum iron concentration of five micrograms or more per ml is associated with moderate to severe poisoning in many.

#### **HOW TO TAKE IROLEX 150MG CAPSULE**

Take this medicine orally with a glass of water . It is best to take iron on an empty stomach at least 30 minutes before meal or 2 hours after taking food. If this medicine causes any type of adverse reaction, discontinue until direction.

#### **STORAGE AND INSTRUCTIONS:**

Keep out of reach of Children  
Store below 30 °C.  
Protect from Sunlight and moisture.

#### **HOW SUPPLIED:**

Irolex 150 mg Capsule in a Pack of 30's.

ہدایات:

تمام دوائیں بچوں کی پہنچ سے دور رکھیں۔

روشنی، گرمی اور نمی سے محفوظ رکھیں۔

30 ڈگری سینٹی گریڈ سے کم درجہ حرارت پر رکھیں۔

صرف رجسٹرڈ ڈاکٹر کے نسخے پر فروخت کریں۔

Manufactured by :



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