IFORU®

आयफॉरयू लिक्विड Liquid

HEALTH SUPPLEMENT

No. of servings: 60				
Serving Size: 2.5 ml				
Nutritional information contains (approx.)	**Unit**	**Per 100 ml**	**Per serve (2.5 ml)**	**% RDA per serve**
Energy	kcal	177.60	4.44	#
Protein	g	0.40	0.01	0.08
Carbohydrate	g	42.00	1.05	#
Total Sugars	g	7.20	0.18	#
Added Sugars	g	4.40	0.11	#
Total Fat	g	0.80	0.02	#
Saturated Fat	g	0.40	0.01	#
Trans Fat	g	0.06	0.002	#
Cholesterol	mg	0.00	0.00	#
Sodium	mg	293.20	7.33	0.37
Each serving per 2.5 ml Contains approx.:				
Iron	mg	200.00	5.00	62.50
Glycine	mg	200.00	5.00	#

% RDA expressed as per ICMR 2020 for children 1-3 years.
# %RDA not established

Ingredients: Vehicle (INS 422), Bulking agent (INS 420 (ii)), Sweetener (Refined Sugar), Maltodextrin, Ferric Pyrophosphate, Glycine, Thickening agent (INS 415), Acidity Regulator (INS 331(iii)), Preservative (INS 211), Acidity Regulator (INS 330), Artificial Masking Flavour, Nature identical Orange Flavour, Sodium chloride, Color (INS 110), and Emulsifier (INS 322(i)).

Q. What is IFORU® Liquid?

IFORU® Liquid is a formulation combining Elemental Iron (Ferric Pyrophosphate) with Glycine specifically designed to support in Iron Deficiency Anemia.

IFORU® Liquid features next-generation micronized and microencapsulated Ferric Pyrophosphate— SunActive™ Fe is a trademarked of Taiyo Kagaku Co. Ltd., Japan. Developed using Taiyo Kagaku's proprietary Advanced MICROSOMAL® Technology, IFORU® Liquid employs the smallest particle size among iron salts. This enables absorption via M cells (microfold cells) in the intestinal lining, bypassing the conventional DMT-1 pathway for enhanced uptake, reduced gastrointestinal side effects, and improved patient compliance.

It also contains Glycine, which is an amino acid essential for building the heme molecule, a crucial component of hemoglobin that carries oxygen in red blood cells.

Q. What is Anemia?

Anemia is a condition in which the number of red blood cells or the hemoglobin concentration within them is lower than normal.

There will be a decreased capacity of the blood to carry oxygen to the body's tissues.

Q. Role of iron in the body?

Iron helps make hemoglobin, the protein in red blood cells that carries oxygen from your lungs to the rest of your body. Without enough iron, your body can't produce hemoglobin well, so less oxygen gets delivered. This causes breathing problems like shortness of breath, trouble exercising, and faster breathing. In at-risk groups, it can harm lung function, limit daily activities, and affect long-term health and quality of life.

Q. What is Iron Deficiency Anemia (IDA)?

Iron deficiency occurs when the body lacks sufficient iron to produce hemoglobin, the protein in red blood cells that transport oxygen and Iron Deficiency Anemia is defined as a decrease in the amount of hemoglobin due to ID.

Whilst IDA is generally regarded as the major contributor to anemia in India in recent times, there is no doubt that its cause is multifactorial, with a range of other factors contributing, including other nutritional deficiencies, sickle cell anemia, thalassaemia, malaria, hookworm infestation and schistosomiasis. Other factors include chronic blood loss from menstruation and gastrointestinal bleeding. The most susceptible are expectant women and children.

Q. Limitations of traditional iron therapies?

Conventional iron salts like ferrous sulfate, ferrous ascorbate, ferrous fumarate, ferrous gluconate remained the mainstay of treatment for IDA. However, their effectiveness is frequently compromised by gastrointestinal (GI) side effects and poor bioavailability. Common complaints include nausea, constipation, abdominal discomfort, and metallic taste. These symptoms are largely attributed to unabsorbed iron lingering in the GI tract. Iron absorption is also limited by its dependence on Divalent Metal Transporter 1 (DMT-1), a rate-limiting pathway that leaves a large portion of oral iron unabsorbed, further aggravating GI discomfort and reducing compliance. Moreover, dietary components like phytates, calcium, and polyphenols inhibit non-heme iron absorption, making it difficult to maintain consistent iron levels through traditional supplements alone.

Q. How does IFORU® Liquid act?

IFORU® Liquid has micronized and microencapsulated form of **ferric pyrophosphate** which enhances the bioavailability of iron and does not taste metallic or oxidize unsaturated fats.

The Micronized FePP (**Ferric Pyrophosphate**) is wrapped in a protective coating to minimize particle aggregation.

It gets taken up by special M cells (microfold cells) in the intestinal lining bypassing traditional DMT-1 transport, then carried by immune cells through lymph channels straight to the liver. There, enzymes break it down to release the iron. Its technology reduces gastrointestinal irritation while delivering superior absorption and patient compliance.

Glycine, an amino acid, helps build heme—the key part of hemoglobin that carries oxygen in red blood cells.

Q. When to take IFORU® liquid?

IFORU® liquid can be given in children and adults with iron deficiency anemia or Post infection anemia.

Q. How to take IFORU® liquid?

Recommended Usage level:

For children 3 yrs: 2.5 ml per day,

For children 4-12 yrs: 2.5 ml twice a day,

For children 13-18 yrs and Adults

(Men and women): 2.5 ml thrice a day

Or as advised by healthcare professional.

Q. How long one needs to continue IFORU® liquid?

IFORU® liquid is to be taken as long as directed by health care professional.

Q. What are benefits of IFORU® liquid?

IFORU® liquid is primarily used to treat iron deficiency anaemia. Iron deficiency occurs mainly due to decrease iron intake (i.e. poor diet), increased iron loss from the body (hookworm infestation), increased iron requirement (ex. Growth spurt), poor absorption

of iron. Anaemia is a condition in which the body does not have enough red blood cells to carry adequate oxygen to various body tissues.

IFORU® liquid contains elemental iron, required by the red blood cells to carry oxygen to other body cells and tissues. By combining with a protein in the blood called haemoglobin, iron helps carry adequate oxygen to various body parts.

Glycine helps in building heme molecule, a crucial component of hemoglobin that carries oxygen in red blood cells.

Q. What are side effects of IFORU® liquid?

IFORU® liquid is much easier to tolerate than other iron salts. It greatly reduces gut side effects like nausea, constipation, and stomach upset. Regular iron often leads to dark stools, a metallic taste, and irritation, but IFORU® liquid unique delivery system avoids these problems. This improves patient compliance without losing iron absorption. If any symptoms persist or worsen consult a physician.

Q. What are the precautions to be taken while using IFORU® liquid?

IFORU® liquid should not be used the patient is allergic/hypersensitive to any of the ingredients present in the product or component of the container.

Contraindicated in patients who have hemosiderosis, hemochromatosis, and hemolytic anemia,

ALLERGEN INFORMATION: May contain milk, soy, and nuts.

Warning: Consult your doctor in case you are pregnant, lactating or taking any other medication before consuming this product. Product shall only be given under medical advice by a recognized medical doctor or dietician or nutritional for children above 2 to 5 years of age.

Q. Can the patient use IFORU® liquid in hepatic/kidney impairment?

The safety of IFORU® liquid ingredients in special population (like liver or kidney impairment) is not established. So, it is advised to consult your healthcare physician before starting IFORU® liquid the patient is suffering from renal or hepatic impairment.

Q. How to store IFORU® liquid?

Store in cool and dry place below 25^{O}C. Protect from sunlight.

Product is required to be stored out of reach of children.

Manufactured by:

Tirupati Lifesciences Private Limited

Nahan Road, Paonta Sahib,

Distt. Sirmaur (HP) - 173025, INDIA.

(In collaboration with Generex Pharmassist Pvt. Ltd.)

Marketed by:

CENTAUR PHARMACEUTICALS PVT. LTD.

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