

AMINO FER® LIQUID
(AMINOACIDS, IRON AND MULTI VITAMINS)

COMPOSITION

Each 10ml Contains

Ferrous glycine sulphate			
Eq. to Elemental Iron			50mg
Zinc Sulphate Monohydrate	BP		25mg
Lysine Hydrochloride Monohydrate	USP		25mg
L- Histidine Hydrochloride Monohydrate	BP		4mg
Thiamine Hydrochloride	BP	5mg	
Riboflavin Sodium Phosphate	BP		3mg
Pyridoxine hydrochloride	BP		1.5mg
Folic acid	BP		0.5mg
Nicotinamide	BP		25mg
Cyanocobalamin	BP		2.4mcg
D- Panthenol	BP		2.5mg
Ascorbic acid	BP		40mg

COLOUR USED: Caramel

CLINICAL PHARMACOLOGY:

AMINO ACIDS:

Amino acids a mixture of essential and nonessential amino acids with high concentrations of the branched chain amino acids Isoleucine, Leucine, and Valine, and low concentrations of Methionine and the aromatic amino acids phenylalanine and tryptophan, relative to general purpose amino acid injections. This amino acid composition has been specifically formulated to provide a well tolerated nitrogen source for nutritional support and therapy of patients with liver disease who have hepatic encephalopathy.

Clinical studies in patients with encephalopathy showed that infusion of Amino acids reversed the abnormal plasma amino acid pattern characterized by decreased levels of branched chain amino acids and elevated levels of aromatic amino acid and Methionine. The trend toward normalization of these amino acids was generally associated with an improvement in mental status and EEG patterns. This clinical response was observed in the majority of patients studied. Nitrogen balance was significantly improved and mortality reduced in these typically protein- intolerant patient who received substantial amount of protein equivalent as Hepat Amine.

When Infused with hypertonic dextrose as a calorie source, supplemented with electrolytes, vitamins, and minerals, Amino acids provides total parenteral nutrition in patients with liver disease, with the exception of essential fatty acids.

VITAMINS: Vitamins have diverse biochemical functions, including function as hormones (e.g. vitamin D), antioxidants (e.g. vitamin), and mediators of cells signaling and regulators of cells and tissue growth and differentiation (e.g. vitamin A). the largest number of vitamins (e.g. B complex vitamins) functions as precursors for enzymes cofactor bio- molecules (coenzymes) that help act as catalyst, vitamins are bound to enzymes and are called prosthetic groups. For example, folic acid carries various forms of carbon group- methyl, formyl and methylene- in the cell.

The best known functions of vitamins is assisting enzyme reaction and hence the role of allthe vitamins is equally important.

IRON: Almost two- thirds of iron in the body is found in hemoglobin, the protein in red blood cells that carries oxygen to tissues. Smaller amounts of iron are found in myoglobin, a protein that helps supply

oxygen to muscle, and in enzymes that assist biochemical reactions. Iron is also found in proteins that store iron for future needs and that transport iron in blood. Iron stores are regulated by intestinal iron absorption.

ZINC: Zinc helps in immune system, which a body's system for fighting off illnesses and infections. It also helps heal wounds, such as cuts. It helps manufacture proteins and genetic material and carry out immune functions, such as protecting against infection and cancer.

INDICATIONS and USAGE

Aminofer Liquid is prescribed to severely anaemic patients in the following conditions.

- Anaemia in surgical patients following surgery.
- Anaemia due to nutritional deficiencies
- Pregnancy and Lactation
- Anaemia due to heavy bleeding during menstruation

VITAMIN C Antioxidant enhances immunity, shortens the life of cold

VITAMIN B1 (As Thiamine hydrochloride) Important role in carbohydrate metabolism

VITAMIN B2 (As Riboflavin sodium phosphate) plays a role in carbohydrate amino acids and other products metabolism

VITAMIN B6 Used in the synthesis and degradation of biogenic amines, controls carbohydrate metabolism

VITAMINE B12 Essential role in synthesis DNA in a cell nucleus. Required for proper functioning of CNS and the metabolism of folic acid.

Nicotinamide Improves mental functions

FOLIC ACID required for multiplication of red cells

L-Histidine Hydrochloride monohydrate Helps in hearing and in anaemia

Lysine Hydrochloride Helps in absorption of calcium and formation of collagen

Ferrous Glycine Sulphate to treat or prevent low blood levels of iron

Zinc Sulphate monohydrate- used as Astringent

D-Panthenol Inside the body it is converted into coenzyme A and useful in cellular metabolism and in several biological reactions.

CONTRAINDICATIONS: it has is known contraindications.

SAFETY: Aminofer Liquid is well tolerated and can be safely prescribed to all age group.

INTERACTIONS: No data Available

PRECAUTION AND WARNINGS: Some multivitamins and Amino acids may affect other medical conditions or treatments. Do not start taking a vitamin or Aminoacids without first talking to your doctor if you have any health problems or conditions, or if you take other medications.

IRON: Do not take ferrous sulfate (iron) without consulting a doctor if you have: ulcers, colitis, and intestinal disease. If your particular brand of iron supplement also contains folic acid, be sure to tell your doctor or pharmacist if you have vitamin B12 deficiency (pernicious anemia) before taking it. Eggs and milk decrease iron absorption. Coffee and tea that is drunk with a meal or 1 hour after a meal may also decrease iron absorption. Accidental overdose of iron-containing products can be very dangerous, even fatal. Keep this medicine out of reach of children. If overdose occurs, call a doctor or poison control center immediately. This medication should be used during pregnancy or while breast-feeding only if recommended by your doctor.

SIDE EFFECTS AND ADVERSE REACTIONS:

Stop taking multivitamins and Aminoacids and seek emergency medical attention if you experience an allergic reaction (difficulty breathing; closing of your throat; swelling of your lips, tongue, or face; or hives). Less serious side effects may be more likely to occur. Nausea, constipation, black stools and diarrhea are among the most common. Taking multivitamins and Aminoacids with food may decrease these side effects.

IRON: May cause stomach cramps, constipation, heartburn, nausea, and vomiting the first few days as your body adjusts to the medication. Iron can cause the stools to turn black in color. This is due to unabsorbed iron and is not harmful. Inform your doctor if you develop: severe stomach pains, chest pain, clammy skin, bluish-colored lips or fingernails. If you notice other effects not listed above, contact your doctor or pharmacist.

DOSAGE: Adult (12 years and above) Two teaspoonful (10 ml). Two times daily (OR) As directed by the physician.

ROUTE OF ADMINISTRATION: Oral

PRESENTATION:

Aminofer Liquid available in 200ml amber colour bottle with measuring cup packed in a carton.

STORAGE CONDITIONS: Store in a cool, dry place. Protect from light.

Keep all medicines out of reach of children.

UNIQUENESS:

Aminofer liquid offers the dual advantage of a unique iron salt Ferrous Glycine sulphate, an Amino Acid bound iron and GHL advantage

(i.e.) provide 3 individuals Amino acids Glycine, Histidine and Lysine because of which Aminofer liquid provides dual benefit:

-Rapid raise in hemoglobin levels.

-Relatively free from gastric irritation

SHAKE WELL BEFORE USE

FOR THERAPEUTIC USE

**MANUFACTURED BY: THE MADRAS PHARMACEUTICALS, 137-B, old Mahabalipuram Road,
Karapakkam, Chennai- 600096. India**