

Ironemic

Lactoferrin 50 mg, Disodium Guanosine 5-Monophosphate 5 mg and Elemental Iron (FBG) 19 mg Tablets

Exception to the *Rule*



PATENTED IN



CANADA & AUSTRALIA



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DESCRIPTION:

- **Ironemic** consists of Lactoferrin, Disodium Guanosine 5-Monophosphate and Ferrous bisglycinate.
- **Lactoferrin** is a non-haem iron-binding protein that is part of the transferrin protein family and differs from transferrin by its higher affinity for iron which is 300 times greater and its ability to retain iron at a pH lower than 4 such as exist. (E.g. in the gastrointestinal tract or inflammatory lesions).
- **Disodium Guanosine 5-Monophosphate(GMP)** is a salt of Guanosine 5-Monophosphate. GMP has been established as a promising candidate for inhibiting hepcidin-FPN interaction, thus promoting an effective iron-mediated erythropoiesis.
- **Ferrous bisglycinate** is a chelate that is used as a source of dietary iron. Forming a ring structure when reacting with glycine, ferrous bisglycinate acts as both a chelate and a nutritionally functional. It has been shown to be more effectively absorbed than other types of iron chelate in healthy people with different iron levels.

INDICATION:

Ironemic is indicated for the management of Iron Deficiency Anemia and Anemia of Chronic Disease.

MECHANISM OF ACTION:

Ironemic works by the following mechanisms -

1. Decreases hepcidin levels by regulating the Ferroportin Hepcidin Axis
2. Increases iron efflux in the systemic circulation by Macrophage M1 to M2 phenotype conversion
3. Reduces ferritin bind iron stores
4. Reduces inflammatory pathways further affecting hepcidin
5. Improves Ferroportin stabilization via GMP

DOSAGE & ADMINISTRATION:

1-2 Tablets a day or as suggested by Healthcare Professional.




Advantages of Ironemic:

- Effective increase of Hemoglobin and systemic Iron Levels
- Countering any adverse effect of inflammation arising due to Erythropoietin resistance
- Less likely to cause intestinal side effects such as nausea, constipation and bloating
- Restoration of Iron Homeostasis
- Ferrous bisglycinate has at least two-fold higher bioavailability/absorption compared to “conventional” iron salts, e.g., ferrous sulfate and ferrous fumarate.
- Useful in the treatment of both True/absolute iron deficiency anemia as well as Functional Iron deficiency anemia

Ref: Lepanto et al. *Frontiers in Immunology*, September 2018; Volume 9: Article 2123. 2) Macciò, Madeddu, Gramignano et al. *The Oncologist* 2010;15:894–90

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