

**DESCRIPTION:****CAPSULE**

Size : # 1

Colour : White/Scarlet

Marking : "RH 250"

**CONTENT:**

Each capsule contains: D-Glucosamine Sulphate 2NaCl equivalent to Glucosamine Sulphate ..... 250 mg

**PHARMACODYNAMICS:**

Glucosamine Sulphate has the following therapeutic activities:

**A. Stimulation of the biosynthesis of mucopolysaccharides**

- Which are the essential components of the cartilage substance.

**B. Lubricant activity**

- Improvement of synovial fluid viscosity
- Increase of synovial fluid production.

**C. Relieves pain**

- Improves joint function
- Inhibits the degeneration of joint function

**PHARMACOKINETICS:**

Glucosamine Sulphate is well absorbed from the gastrointestinal tract (over 90%) and diffuses through the body, with a particular tropism for the articular cartilage. The absolute bioavailability of Glucosamine Sulphate was 26%, due to the first-pass effect in the liver. Following oral administration, 10% was excreted via the urine, whereas 11.3% via the faeces.

However, levels of Glucosamine Sulphate incorporated in plasma proteins reached a peak after 8-10 hours and then declined, exhibiting a half-life of 68 hours.

**INDICATION:**

As adjunctive therapy in osteoarthritis.

**RECOMMENDED DOSE:****Light to moderate osteoarthritis symptoms:**

2 capsules, twice daily for at least 6 weeks.

**Severe osteoarthritis symptoms:**

Initial therapy : 2 capsules, three times daily for at least 8 weeks.

Follow-up therapy : Maintenance dose of 2 capsules, twice daily for 3 - 4 months.

Long term treatment: Repeat every other 6 months or less (or as prescribed).

Capsules should be taken 15 minutes before meals.

**CONTRAINDICATIONS:**

Hypersensitivity to Glucosamine.

**PRECAUTIONS/WARNINGS:**

Glucosamine Sulphate is a causal therapy and the therapeutic effect is only seen after 1 week. Therefore, it is advisable to include an anti-inflammatory drug (in case of severe pains) during the first days of treatment with Glucosamine. The effect of Glucosamine on insulin sensitivity and glucose tolerance is unclear, caution is advised for diabetic patients.

Avoid taking this product if you are allergic to shellfish.

**DRUG INTERACTION:**

No interaction has been recorded.

**PREGNANCY AND LACTATION:**

Pregnant and breast-feeding mothers - seek medical advice before initiating the treatment. Glucosamine has not been extensively studied in the above population to determine its safety and efficacy.

**SIDE EFFECTS/ADVERSE REACTIONS:****Cardiovascular:**

Peripheral Oedema, tachycardia were reported in a few patients following larger clinical trials investigating oral administration in osteoarthritis. Causal relationship has not been established.

**Central Nervous System:**

Drowsiness, headache, insomnia have been observed rarely during therapy (less than 1%).

**Gastrointestinal:**

Nausea, vomiting, diarrhea, dyspepsia or epigastric pain, constipation, heartburn and anorexia have been described rarely during oral therapy with Glucosamine.

**Skin:**

Skin reactions such as erythema and pruritus have been reported with therapeutic administration of Glucosamine.

**SYMPTOMS AND TREATMENT OF OVERDOSE:**

No information available.

**PACKING/PACK SIZE(S):**

Plastic containers of 100's &amp; 180's.

**DERIVED FROM SEAFOOD****JAUHI UBAT DARIPADA KANAK-KANAK****KEEP OUT OF REACH OF CHILDREN****MANUFACTURER/PRODUCT REGISTRATION HOLDER:****DYNAPHARM (M) SDN. BHD. 198001011897 (65683-V)**

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