

## Lyophilized Powder for Infusion

### Composition

**Arovital IV Infusion:** Each vial contains Vitamin B<sub>1</sub> (as Thiamine Nitrate BP) 2.5 mg, Vitamin B<sub>2</sub> (as Riboflavin Sodium Phosphate BP) 3.6 mg, Nicotinamide BP 40 mg, Vitamin B<sub>6</sub> (as Pyridoxine Hydrochloride BP) 4 mg, Pantothenic Acid (as Calcium Pantothenate BP) 15 mg, Vitamin C (as Sodium Ascorbate USP) 100 mg, Biotin BP 0.06 mg, Folic Acid BP 0.4 mg and Vitamin B<sub>12</sub> (as Cyanocobalamin BP) 0.005 mg.

### Pharmacology

**Arovital IV Infusion** is a sterile, lyophilized powder of water-soluble vitamins for infusion. They act as coenzymes of vital enzymes associated with crucial physiological processes, energy metabolism, cell growth and replenishment especially in brain and nerve cells and gives better synergistic action. Vitamin C acts as an antioxidant and helps in collagen formation. Intravenous administration of this combination gives prompt action with fine pharmacological properties in body in terms of efficacy and tolerability.

### Indications

**Arovital IV Infusion** is intended as a supplement for intravenous nutrition in order to meet the daily requirements of the water-soluble vitamins in infants, children and adults.

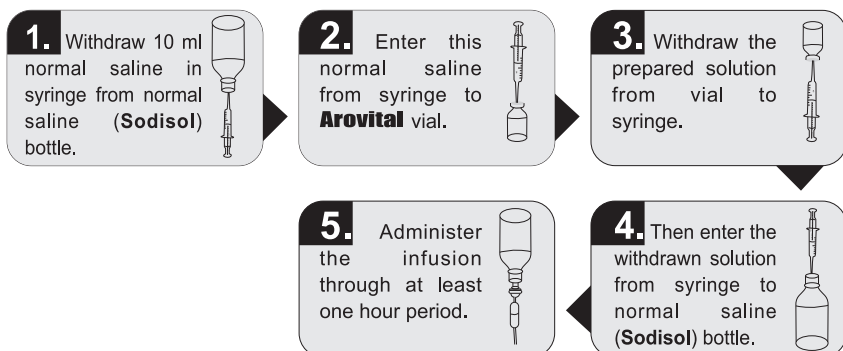
### Dosage

**Adults:** One vial (10 ml) / day

**Children up to 10 kg:** 1 ml of the dissolved mixture per kg body weight / day

**Children over 10 kg:** One vial (10 ml) / day.

### Administration procedure



### Contraindications

Hypersensitivity to any of the ingredients of the preparation.

### Side effects

Since **Arovital IV Infusion** has to be diluted with other nutrient solutions, it may cause unwanted effects in some people. The unwanted effects of nutrient solutions are a rise in the body temperature, shivering, chills and nausea and vomiting. Other rare unwanted effects include: allergic reactions; breathing difficulties (rapid breathing, shortness of breath); effects on blood pressure, abdominal pain, tiredness, headaches, flushing, slight pressure over the eyes and dizziness.

### Precautions

Administering folic acid may obscure pernicious anemia. **Arovital IV Infusion** doses recommended are insufficient to correct severe vitamin deficiency states and may be insufficient in patients with markedly increased vitamin requirements. In patients receiving total parenteral nutrition (TPN), routine supplementation with both fat-soluble and water-soluble vitamins is recommended to prevent deficiency states and to obviate the need to speculate on individual vitamin status. Daily vitamin requirements must be calculated to avoid over dosage and toxic effects, especially with regards to vitamins A & D and particularly in pediatric patients. In patients for whom total parenteral nutrition is continued for prolonged periods (months or years), periodic monitoring of blood vitamin levels should be considered. To prevent excessive excretion of water-soluble vitamins and for reasons of safety, daily dosage should be administered over a number of hours.

### Overdose

The possibility of hypervitaminosis A and D should be considered if the contents of the **Arovital IV Infusion** vial are dissolved with any fat-soluble vitamin preparations.

### Use in pregnancy and lactation

Animal reproduction studies or clinical investigations during pregnancy have not been carried out with this preparation. However, there are published reports on safe administration of water soluble vitamins in this patient group.

### Drug Interactions

Vitamin B<sub>6</sub> can reduce the effect of levodopa. Folic acid may lower the serum concentration of phenytoin. Other drugs should not be added to Arovital IV Infusion mixed with fat-soluble vitamins, due to the possibility of physical incompatibilities.

### Storage

- Store below 25°C, keep in dry place & protect from light.
- The reconstituted intravenous solution should be added to the infusion solution aseptically, immediately before the start of the infusion and used within 24 hours.
- Keep out of the reach of children.

### Commercial Box

**Arovital Multivitamin Infusion:** Each box contains one pack of multivitamin powder (**Arovital**), one bottle of 100 ml normal saline (**Sodisol**), one hanger and one pouch containing one 10 ml disposable syringe, first aid bandage, IV infusion set with butterfly needle & an alcohol pad.