

INDION[®] 404

Calcium Polystyrene Sulfonate

Description

INDION 404 is a high purity pharmaceutical grade strong acid cation exchange resin, supplied in calcium form as a free flowing powder.

Specifications of INDION 404 are as given in the British Pharmacopia (BP).

The parent material is manufactured in an ISO 9001 & ISO 14001 certified facility.

Applications

INDION 404 removes potassium from the body by exchanging it within the gut for calcium. For the most part, this action occurs in the large intestine, which excretes potassium to a greater degree than does the small intestine.

Formulations containing INDION 404 are recommended for the treatment of hyperkalaemia associated with anuria and severe oliguria. It is also used to treat hyperkalaemia in patients requiring dialysis on regular haemodialysis or on prolonged peritoneal dialysis.

Characteristics

Appearance	:	Cream to light brown fine powder
Matrix	:	Crosslinked polystyrene co-polymer
Functional Group	:	Sulphonic acid
Ionic form as supplied	:	Calcium
Solubility	:	Insoluble in water and in Ethanol (96%)

Specifications

Identification		
By IR spectra	:	Complies with BP
Reaction C for Ca	:	Complies with BP
Loss on drying	:	8%, maximum
Particle size distribution		
Retained on 100 BSS mesh (150 microns)	:	1.0% maximum
Potassium exchange capacity	:	1.3 to 2.0 meq/dry g
Potassium content	:	0.1% w/w, maximum
Sodium content	:	0.1% w/w, maximum
Calcium content	:	6.5 to 9.5% w/w
Styrene	:	Complies with BP
Heavy metals content as Pb	:	Complies with BP
Arsenic content as As	:	Complies with BP
Microbial contamination	:	Complies with BP

Toxicity

INDION 404 is a high molecular weight polymer. It is not soluble in water.

Experiments on mice have shown LD50 value of INDION 404 to be approximately 17,500 mg/kg body weight.

INDION 404 is not absorbed from the gastrointestinal tract.

Packing

HDPE carboys with inner double plastic liner bags 6 / 20 / 40 kgs

Storage

INDION 404 is hygroscopic in nature. It is therefore essential to store it in a tightly packed container to prevent absorption of atmospheric moisture. If moisture is absorbed, the INDION 404 can be dried at 90° C to 100° C for approximately 6 hours to reduce the moisture content below 8%.

INDION range of Ion Exchange resins are produced in a state of the art ISO 9001 and ISO 14001 certified manufacturing facilities at Ankleshwar, in the state of Gujarat in India. This product data sheet (issue 09/2008) replaces previous issues.

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice.

INDION is the registered trademark



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