

INDION® 294

Polacrilin Potassium

Description

INDION 294 is a high purity pharmaceutical grade weak acid cation exchange resin, supplied in potassium form as a free flowing powder. It is suitable for use in the pharmaceutical applications such as taste masking and tablet disintegration. INDION 294 is derived from crosslinked polymethacrylic acid. INDION 294 conforms to the specification of monograph for polacrilin potassium in USP/NF. INDION 294 is manufactured in an FDA approved manufacturing facility. The parent material is manufactured in a ISO 9001 and ISO 14001 certified facility.

Applications

INDION 294 is an effective tablet disintegrant, while providing the necessary hardness and chemical stability. It swells up enormously when in contact with water or gastro-intestinal fluids causing rapid disintegration without the formation of lumps.

About 0.5 - 5 % INDION 294 can be added in dry form to the formulation.

Advantages

- Remarkable-swelling tendency on wetting, causing rapid disintegration.
- No lump formation on disintegration.
- Compatible with commonly used therapeutic agents and excipients.
- Works equally efficiently in hydrophilic and hydrophobic formulations.
- Gives good mechanical strength to the tablet.
- Facilitating easy packing and transportation.
- Does not dissolve or have an adhesive tendency as in case of gums.
- Does not stick to punches and dyes.

Characteristics

Appearance	:	White to pale cream powder
Matrix	:	Copolymer of methacrylic acid and divinyl benzene
Functional Group	:	Carboxylic acid
Ionic form as supplied	:	Potassium
Solubility	:	Insoluble in water and in common solvents

Specifications

Particle size distribution		
Retained on 100 BSS mesh (150 microns)	:	1.0%, maximum
Retained on 200 BSS mesh (75 microns)	:	30%, minimum
Moisture content	:	10 %, maximum
Sodium content	:	0.2%, maximum
Potassium content	:	20.6 - 25.1%
pH of 10% slurry	:	7.0 - 9.0
Iron content as Fe	:	100 ppm, maximum
Heavy metals content as Pb	:	20 ppm, maximum
Arsenic content as As	:	3 ppm, maximum

Toxicity

INDION 294 is a high molecular weight crosslinked polymer. It is therefore not absorbed by body tissues and is totally safe for human consumption. Tests for toxicological tolerances show that it does not have any pronounced physiological action at recommended dosage level and is definitely non-toxic. Experiments on mice have shown LD 50 value of INDION 294 to be approximately 3000 mg/kg body weight.

Packing

HDPE carboys with inner
double plastic liner bags

6 / 20 / 40 kgs

Storage

INDION 294 is hygroscopic in nature. Hence it is essential to store INDION 294 in a tightly packed container to prevent absorption of atmospheric moisture. If moisture is absorbed, INDION 294 can be dried at 90° C to 100° C for approximately 6 hours to reduce the moisture content below 10%.

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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