

INDION® 214

Description

INDION 214 is a high purity pharmaceutical grade weak acid cation exchange resin, supplied as a dry powder in Hydrogen form as a free flowing powder. It is specially designed for taste masking of bitter bulky drugs such as Azithromycin.

INDION 214 is based on a cross linked polyacrylic acid. The parent material is manufactured in an ISO 9001 & 14001 certified facility.

Applications

INDION 214 can be administered in forms such as suspension and dispersible tablets. The principle behind the technique of masking a tasteless formulation is very simple and does not involve major capital investment.

A complex is made from the drug and INDION 214. The nature of the complex is such that the average cation concentration of about 40 meq / l and pH of 6.7 in saliva is not able to break the complex. The complex is weak enough to be broken down by the hydrochloric acid present in the stomach. Thus the complex is absolutely tasteless and stable with no after taste, but at the same time, its bio-availability is not affected.

Characteristics

Appearance	:	White to pale cream powder
Matrix	:	Cross linked acrylic polymer
Functional Group	:	Carboxylic acid
Ionic form as supplied	:	Hydrogen
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)	:	45%, minimum
Moisture content	:	5%, maximum
Total exchange capacity	:	10 meq/dry g, minimum
Iron content as Fe	:	100 ppm, maximum
Heavy metals content as Pb	:	20 ppm, maximum
Arsenic content as As	:	3 ppm, maximum

Toxicity

INDION 214 is a high molecular weight polymer. It is therefore not absorbed by body tissues and is totally safe for human consumption. Experiments on mice have shown LD 50 value of INDION 214 to be approximately 10,000 mg/kg body weight.

Packing

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

Storage

INDION 214 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 resin can be dried at 90°C to 100°C for approximately six hours to reduce the moisture content below 5%.

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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