

INDION® 244

Description

INDION 244 is a high purity pharmaceutical grade strongly acidic cation exchange resin, supplied in hydrogen form as free flowing powder. It is suitable for use in pharmaceutical applications such as sustained release and taste masking of drugs. INDION 244 is based on a styrene and divinyl benzene co-polymer. INDION 244 is manufactured in a FDA

approved manufacturing facility. The parent material is manufactured in an ISO 9001 and ISO 14001 certified facility.

Applications

Sustained release agent

INDION 244 finds applications as a sustained release agent. It has prolonged and predictable drug release characteristics. INDION 244 imparts sustained release properties to oral dosage forms through the formation of resin drug complex (drug resinates). The drug is released from the resinate *in vivo* as it reaches equilibrium with the high electrolyte concentration which is typical of the gastro-intestinal tract.

Taste masking agent

When used as a drug carrier, INDION 244 provides a means for binding the active drug. This can afford an effective means for minimising the problem of taste and odour which may be associated with the drug.

Characteristics

Appearance	:	Light brown powder
Matrix	:	Crosslinked polystyrene
Functional Group	:	Sulphonic 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
Moisture content	:	10 %, maximum
Iron content as Fe	:	100 ppm, maximum
Heavy metals content as Pb	:	20 ppm, maximum
Arsenic content as As	:	3 ppm, maximum
Total exchange capacity		4.5 meq/dry g, minimum

Toxicity

INDION 244 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 tolerance 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 244 to be approximately 5,500 mg/kg.

Packing

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

Storage

INDION 244 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, INDION 244 can be dried at 90° C to 100° C for approximately 6 hours to bring down 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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