

INDION® 284

Description

INDION 284 is a high purity pharmaceutical grade strongly acidic cation exchange resin, supplied as moist beads. It is suitable for use in pharmaceutical applications for sustained release of drugs. INDION 284 is derived from a sulphonated co-polymer of styrene and divinyl benzene.

Applications

Sustained release properties can be imparted to oral dosage formulations through the formation of a complex using INDION 284. The drug is released from the resin *in vivo* as it reaches equilibrium with the

high electrolyte concentration which is typical of the gastro - intestinal tract.

Toxicity

INDION 284 is a high molecular weight 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 284 to be more than 7500 mg/kg body weight.

Characteristics

Appearance	:	Golden yellow to pale brown beads
Matrix	:	Crosslinked polystyrene
Functional Group	:	Sulphonic acid
Ionic form as supplied	:	Sodium

Specifications

Particle size range	:	0.3 to 1.2 mm
Bead size distribution	:	
Coarse fraction (> 1.2 mm)	:	5.0%, maximum
Fine fraction (< 0.3 mm)	:	1.0%, maximum
Effective size	:	0.40 to 0.50 mm
Uniformity co-efficient	:	1.7, maximum
Cracks	:	10%, maximum
Pieces	:	2%, maximum
Moisture content	:	70 %, maximum
Iron content as Fe	:	100 ppm, maximum
Heavy metals content as Pb	:	20 ppm, maximum
Arsenic content as As	:	3 ppm, maximum
Brine pH	:	4.5 - 9.0
Total exchange capacity	:	1.0 meq/ml, minimum

Packing

HDPE carbouys with inner double plastic liner bags

6 / 20 / 40 kgs

Storage

Ion exchange resins require proper care at all times. The resins which are supplied in moist condition must never be allowed to dry. The drum should therefore be always kept in the shade in a tightly closed condition.

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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