

## Manufacturing of Dextromethorphan Polistirex

Strong Acid Cation Exchange Resin

### Key Characteristics:

- Manufacturing of Dextromethorphan Polistirex
- Available in Multiple Grades of 2X, 4X, 6X, 8X and 10X ("X" represents the cross linkage of DVB in resin)
- Specially manufactured for Pharma and Food Grade Applications.

Properties	
Matrix	Cross linked Polystyrene with DVB
Functional group	SO <sub>3</sub> (Sulphonic)
Ionic Form	Na <sup>+</sup> – Analytical Grade H <sup>+</sup> – Practical Grade
Particle size (mm)	0.30 - 1.20
Mean Harmonic diameter (mm)	0.50 - 0.70
Uniformity Coefficient	1.5 (max)
Moisture Content %	50 – 58 % for H <sup>+</sup> Form
Total Exchange Capacity (eq/L) (min)	1.7 for H <sup>+</sup> form
Bulk Density / Shipping Weight (gm/L)	750-820
Operating pH Range	0 – 14
Solubility in common solvents	Insoluble
Volume change % (max) : Na <sup>+</sup> to H <sup>+</sup>	8%
Ion Selectivity	Ba <sub>2</sub> <sup>+</sup> > Sr <sub>2</sub> <sup>+</sup> > Ca <sub>2</sub> <sup>+</sup> > Mg <sub>2</sub> <sup>+</sup> > Cs <sup>+</sup> > Rb <sup>+</sup> > K <sup>+</sup> > Na <sup>+</sup> > H <sup>+</sup> > Li <sup>+</sup>
Temperature Stability (°C)	120 °C (max)

**Packaging:** 10 kg, 25 kg and 50 kg Fibre Drum



## Full Range of Pharmaceutical Polymers

Speciality Polymers	Active Pharmaceutical Ingredients	Ready Mix & Ready to Use
<b>P-520</b> (Vitamin C Purification)	<b>P-548</b> (Calcium Polystyrene Sulfonate BP/ JP)	<b>P-542 AB (R)</b>
<b>P-535</b> (Separation of Aminoacids, Enzymes & Alkloids)	<b>P-504</b> (Sodium Polystyrene Sulfonate USP/ EP)	Azithromycin Taste Masked (7.5%)
<b>P-545 8X</b> (Dextromethorphan Polistirex Manufacturing)	<b>P-550</b> (Cholestyramine Resin USP / EP)	

  

Taste Masking	Tablet Disintegration	Control / Sustained Release
<b>P-551</b> (Polacrilex Resin USP)	<b>P-544 DS</b> (Polacrillin Potassium USP)	<b>P-504</b> (Sodium Polystyrene Sulfonate)
<b>P-514</b> (Methacrylic Acid Polymer with Divinyl Benzene & Acrylic Acid)	<b>P-544 D</b> (Polacrillin Potassium USP)	<b>P-550</b> (Cholestyramine)
<b>P-542</b> (Methacrylic Acid Polymer with Divinyl Benzene & Acrylic Acid)	<b>P-544 DB</b> (Polacrillin Potassium)	
<b>P-542 AB</b> (Methacrylic Acid Polymer with Divinyl Benzene & Acrylic Acid)		
<b>P-542 CP</b> (Methacrylic Acid Polymer with Divinyl Benzene & Acrylic Acid)		
<b>P-542 D</b> (Methacrylic Acid Polymer with Divinyl Benzene & Acrylic Acid)		
<b>P-544 R</b> (Methacrylic co-Polymer with divinyl benzene)		
<b>P-544 DS Cipro</b> (Potassium Salt of Weak Acid Cation Resin)		
<b>P-544 C</b> (Methacrylic acid Polymer with Divinyl Benzene and Acrylic acid, Potassium Salt)		



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Translating Source Into Resource

**Doshion Poly Science Pvt. Ltd.**

Building Number: 9 – 10, Sigma Corporates,  
Off. Sindhu Bhavan Road, Ahmedabad – 380054, Gujarat, India

+91 079 – 4800 7766 | [polymers@doshion.com](mailto:polymers@doshion.com) | [www.doshionpoly.com](http://www.doshionpoly.com)

