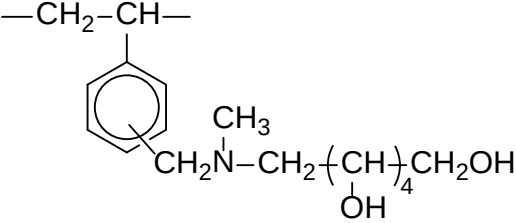


Product Data Sheet

DIAION™ CRB03

DIAION™ CRB03 is a glucamine type chelating resin. It has a high selectivity for borate ion. It is recommended for borate separation process from various solutions, including brines and sea water.

Product

Grade Name	DIAION™ CRB03
Type	Chelating Resin
Matrix	Styrene-DVB, Highly Porous
Chemical Structure	
Functional Group	N-Methyl Glucamine
Ionic Form	Free Base

Specification

Whole Bead Count	-	95 min.
Total Exchange Capacity	meq/mL	0.7 min.
Water Content	%	45 - 55
Particle Size Distribution on 850 μm	%	10 max.
Particle Size Distribution thr. 300 μm	%	1 max.
Effective Size	mm	0.35 - 0.55
Uniformity Coefficient	-	1.6 max.

Typical Properties

Shipping Density	g/L	670
Mean Particle Size	μm	550
Adsorption Isotherm of Boronic Acid	mg-B/mL-R	20
Total Swelling (FB to Cl ⁻)	%	10



Product Data Sheet

DIAION™ CRB03

Recommended Operating Conditions

Maximum Operating Temperature	°C	100
Effective pH Range		2 - 6
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	5 - 20
Eluate		HCl
Eluate Concentration	%	HCl 2 - 4
Eluate Level	g/L	50 - 100
Eluate Flow Rate	m/h	1 - 3
Regenerant		NaOH
Regenerant Concentration	%	NaOH 2 - 4
Regenerant Level	g/L	20 - 40
Regenerant Flow Rate	m/h	1 - 3
Total Rinse Requirement	BV	10 - 20

Notice

This information are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. The application, use and processing of our products are beyond our control and therefore your own responsibility.

