

## Supplementary

Resin	XAD-16N	Anion resin		Cation resin	
		Gel type-335	Macroreticular-D315	Gel type-JK110	Macroreticular-HD-1
Framework	styryl	epikote	acrylic polymers	acrylic polymers	phenolic
Functional groups	-	-NH <sub>2</sub> , =N, ≡N	≡N	-COO-	-COO-
Water content (%)	62-70	60-70	47-57	70-80	62-72
Particle size range (mm)	0.30-1.18 ≥ 92%	0.315-1.25 ≥ 90%	0.315-1.2 ≥ 95%	0.315-1.25 ≥ 90%	0.315-1.25 ≥ 90%

**Table 1.** Classification and characteristics of resins