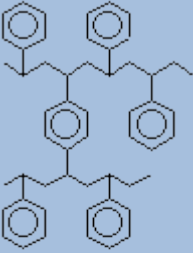
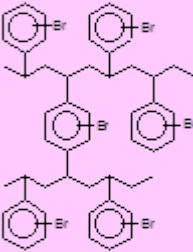
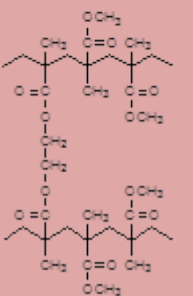


Mitsubishi's Synthetic adsorbent

	Chemical structure	Good point	Adsorption ability
Synthetic adsorbent of Styrene body HP20,HP20SS,HP21 SP70,SP700,SP825,SP850 CHP20,CHP50		<ul style="list-style-type: none"> ● Standard type ● Have interaction of π-π bond adsorb materials to have double strongly 	strong
Synthetic adsorbent of bromated Styrene body SP207		<ul style="list-style-type: none"> ● High hydrophobicity Can adsorb low hydrophobic materials ● High density(1.2) 	Very strong
Synthetic adsorbent of Methacryle ester body HP2MGL SP2MGS CMG20		<ul style="list-style-type: none"> ● Have ability of hydrogen bond can adsorb high hydrophilic material for example carboxylic compound, ester compound amino, amid compound ● it is possible to be chromatography with normal phase 	hydrophobic weak Hydrophilic strong

Mitsubishi's Synthetic adsorbents list

Name	SP850	SP825L	SP70	SP700	HP21	HP20	SP207	HP2MGL
Water content	46-52%	52-62%	55-65%	60-70%	45-55%	55-65%	43-53%	55-65%
Particle distribution ($\geq 250\mu\text{m}$)	$\geq 90\%$	$\geq 95\%$	-	-	$\geq 90\%$ ($\geq 250\mu\text{m}$)			$\geq 90\%$ ($\geq 300\mu\text{m}$)
Effective size (mm)	≥ 0.25		-	-	≥ 0.25			≥ 0.30
Uniformity coefficient	≤ 1.6		-	-	≤ 1.6			≤ 1.6
Mean diameter (mm)	-	-	0.45	0.45	-	-	-	-
Surface area(m^2/g) (m^2/mL)	930 320	930 290	870 220	1200 280	640 190	590 160	600 250	570 150
Pore volume (ml/g)	1.1	1.4	1.5	2.2	1.3	1.3	1.0	1.3
Mode radius (Angstrom)	45	70	70	90	110	290	110	240
Cephalosporin C adsorption weight (g/L)	85	76	60	76	48	38	119	<10

Note : pre distribution and CPC adsorption weight is reference value