



**D**

Molar ratio Piperacillin:BSA	Observed molecular mass (Da)	Mass variation $\Delta M$	$\Delta M/M_h$ (hapten density)
0:1	66,528.98	0	0 (0)
1:1	66,740.73	211.75	0.41
10:1	67,029.0	500.20	0.97 (1)
20:1	67,499.34	970.36	1.88 (2)
50:1	67,743.98	1,215.0	2.35 (2)
100:1	68,430.38	1,901.40	3.67 (4)

