

**Table1:** Number of identified HCPs during fed-batch, perfusion SS, and perfusion NSS

	Day	HCCF		ProA	
		Detected protein Group <sup>a</sup> # by MS	Total HCP by ELISA (ppm)	Detected protein Group # by MS	Total HCP by ELISA (ppm)
Fed-batch	14	1310	4.5 X 10 <sup>5</sup>	319	263
Perfusion SS	5	295	6.5 X 10 <sup>4</sup>	16	63
	9	165	7.4 X 10 <sup>4</sup>	27	67
	14	347	5.8 X 10 <sup>4</sup>	19	86
Perfusion NSS	5	1645	2.1 X 10 <sup>5</sup>	14	123
	7	1903	6.3 X 10 <sup>5</sup>	37	119
	9	1586	5.4 X 10 <sup>5</sup>	36	115

<sup>a</sup> identified proteins are grouped based on sequence homology and/or isoforms