

Astral software version 1.1									
DDA	TMT	Crosslinking				Immunopeptidomics			
		Cleavable		non		MHC DDA Class I		MHC DDA Class II	
		SCE HCD	Charge dependend NCE		cleavable	high load	low load	high load	low load
Method length	90 min	65 min	65 min		65 min	72 min	72 min	72 min	72 min
<b>Full scan</b>									
Analyzer	OT	OT	OT		OT	OT	OT	OT	OT
Resolution	120k	180k	180k		180k	120k	120k	120k	120k
mz range	400-1500	400-1400	400-1400		400-1400	<b>350-800</b>	<b>350-800</b>	<b>120-1700</b>	<b>120-1700</b>
RF lens	50	40	40		40	45	45	45	45
AGC	300	500	500		500	300	300	300	300
IT	50	5	5		5	100	100	100	100
Microscans	1	1	1		1	1	1	1	1
Data type	profile	centroid	centroid		profile	profile	profile	profile	profile
<b>MS2</b>									
DDA mode	DDA	DDA	DDA		DDA	DDA	DDA	DDA	DDA
DDA cycle time	cycle time	cycle time	cycle time		cycle time	cycle time	cycle time	cycle time	cycle time
Time (sec)	1 sec	0.5 sec	1.6		1.6	0.6 sec	0.6 sec	0.6 sec	0.6 sec
Isolation window	<b>0.5</b>	1.6	1.6	1.6	1.6	1	2	1	2
Window offset	Off	Off	Off	Off	Off	Off	Off	Off	Off
Collision energy type	normalized	normalized	normalized	normalized	normalized	normalized	normalized	normalized	normalized
HCD collision energy	<b>35</b>	<b>20, 28, 32</b>	<b>32</b>	<b>28</b>	<b>32</b>	<b>29</b>	<b>29</b>	<b>29</b>	<b>29</b>
Detector type	Astral	Astral	Astral	Astral	Astral	Astral	Astral	Astral	Astral
TMT	On	Off	Off	Off	Off	Off	Off	Off	Off
Scan Range (mz)	<b>110-2000</b>	150-2000	150-2000	150-2000	150-2000	110-1500	110-1500	110-1500	110-1500
AGC target	100	500	15	15	500	30	30	30	30
IT	20	20	100	100	20	100	100	100	100
Microscans	1	1	1	1	1	1	1	1	1
Data type	Centroid	Centroid	Centroid	Centroid	Centroid	Centroid	Centroid	Centroid	Centroid
Precursor selection range	400-1500	peptide	peptide	peptide	peptide	peptide	peptide	peptide	peptide
MIPS	peptide	peptide	peptide	peptide	peptide	peptide	peptide	peptide	peptide
Relax restrictions	on	on	on	on	on	off	off	off	off
Intensity	5.00E+03	1.00E+04	1.00E+04		1.00E+04				
Precursor Fit	50%, 1.2mz								
Charge Stage	2-6	3-8	<b>3</b>	<b>4-8</b>	3-8	<b>2-4</b>	<b>2-4</b>	<b>2-6</b>	<b>2-6</b>
Dynamic Exclusion									
Share dynamic excl list	custom	custom	custom		custom	custom	custom	custom	custom
Mode									
Exclude after n times	1	1	1	1	1	1	1	1	1
Exclusion duration	30	15	15	15	15	15	15	15	15
Mass tolerance	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Low	5	20	20	20	20	5	5	5	5
High	5	20	20	20	20	5	5	5	5
Exclude isotopes	on	on	on	on	on	on	on	on	on
Perform dependent scan on single charge state	off	off	off	off	off	on	on	on	on