

Biosearch Technologies Cycle File for ABI 3900

Applied Biosystems Oligonucleotide Synthesizer Cycle File

Scale
200 nMole

Case UPPER							Case LOWER					
PREPROCESSING	Purges	# Iterations	Wait sec.	Command Code	Param1 Chemical	Param2 Volume	START	# Iterations	Wait sec.	Command Code	Param1 Chemical	Param2 Volume
PREWASH	LONG_PURGE	1	0	DISP	ACN	280	PREWASH	1	0	DISP	ACN	280
START_LOOP												
DETRITYLATION		4	0	DISP	DEBLOCK	130	DETRITYLATION	4	0	DISP	DEBLOCK	130
	LONG_PURGE											
TCA_WASH		2	0	DISP	ACN	280	TCA_WASH	2	0	DISP	ACN	280
	LONG_PURGE											
COUPLING		2	25	DISP	ACTIVATOR	50	COUPLING	2	0	DISP	ACTIVATOR	50
	REACT			DISP	AMIDITE	40				DISP	AMIDITE	40
CAPPING		2	2	DISP	CAPB	40	CAPPING	1	0	DISP	CAPB	40
	SHORT_PURGE			DISP	CAPA	40				DISP	CAPA	40
OXIDATION		2	2	DISP	OXIDIZER	80	OXIDATION	1	0	DISP	OXIDIZER	80
	SHORT_PURGE											
OX_WASH		2	0	DISP	ACN	200	OX_WASH	2	0	DISP	ACN	200
	LONG_PURGE											
END_LOOP												
TRITYLOFF		4	0	DISP	DEBLOCK	160	TRITYLOFF	4	0	DISP	DEBLOCK	160
	LONG_PURGE											
FINAL_FLUSH		4	0	DISP	ACN	280	FINAL_FLUSH	4	0	DISP	ACN	280
	LONG_PURGE											
DRY_SUPPORT		1	0	DISP	ACN	280	DRY_SUPPORT	1	0	DISP	ACN	280
	DRY_BEADS											
END_PROGRAM												

Coupling Wait Time
25

Coupling of Modified Amidites					Purge Settings			
Amidite	Volume	Reps	Wait	Cpl.Wait	Name	Reps	Seconds	Interim
5	40	2		150	REACT	2	0.1	0
6	40				LONG_PURGE	1	6	0
7	40				SHORT_PURGE	1	3	0
8	40				DRY_BEADS	4	10	1
9	40							
0	40							

NOTE:
For 50 nmol columns it is recommended to change the head pressure/purge, pressure/chamber pressure to 3.5 psi.

Mixed Mode Amidites	
Purge Label	
REACT	