

Protocol report

MagReSyn_MOAC_phosphopeptide_enrichment_KF_Flex

17 Jan 2022 14:01:57+02:00

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General info

Protocol information

Protocol name	MagReSyn_MOAC_phosphopeptide_enrichment_KF_Flex
Modified by	SSTOYCHEV
Kit name	Phosphopeptide Enrichment
Description	KingFisher Flex protocol for enrichment of phosphopeptides (Tape et al., 2014) Example shown is for enrichment of 200ug digest with MagReSyn TiO ₂ or ZrO ₂ microparticles

Reagent info

P1 Microspheres		96 DW plate		
Name	Well volume [µl]	Total reagent volume [µl]	Type	
TiO ₂ (25mg/ml) or ZrO ₂ (50mg/ml)	80	-	Reagent	
80% ACN, 5% TFA, 1M GA (bind buffer)	170	-	Reagent	

P2 Microsphere Wash		96 DW plate		
Name	Well volume [µl]	Total reagent volume [µl]	Type	
80% ACN, 5% TFA, 1M GA	500	-	Reagent	

P3 Sample		96 DW plate		
Name	Well volume [µl]	Total reagent volume [µl]	Type	
200ug digest in 80% ACN, 5% TFA, 1M GA	200	-	Sample	

P4 Wash 1		96 DW plate		
Name	Well volume [µl]	Total reagent volume [µl]	Type	
80% ACN, 5% TFA, 1M GA	500	-	Reagent	

P5 Wash 2		96 DW plate		
Name	Well volume [µl]	Total reagent volume [µl]	Type	
80% ACN, 1% TFA	500	-	Reagent	

P6 Wash 3		96 DW plate		
Name	Well volume [µl]	Total reagent volume [µl]	Type	
10% ACN, 0.2% TFA	500	-	Reagent	

P7 Elution		96 DW plate		
Name	Well volume [µl]	Total reagent volume [µl]	Type	
1-2% NH ₄ OH	200	-	Reagent	

Tip Plate		96 DW plate		
Name	Well volume [µl]	Total reagent volume [µl]	Type	
-	-	-	-	

Steps data





	Tip1	96 DW tip comb	
	Pick-Up	Tip Plate	
	CollectBeads1	P1 Microspheres	
		Collect count	3
		Collect time [s]	10
	Equilibration	P2 Microsphere Wash	
	Beginning of step	Precollect	No
		Release time, speed	00:00:05, Slow
	Mixing / heating:	Mixing time, speed	00:05:00, Slow
		Heating during mixing	No
	End of step	Postmix	No
		Collect count	3
		Collect time [s]	2
	p-peptide bind	P3 Sample	
	Beginning of step	Precollect	No
		Release time, speed	00:00:05, Slow
	Mixing / heating:	Mixing time, speed	00:20:00, Slow
		Heating during mixing	No
	End of step	Postmix	No
		Collect count	3
		Collect time [s]	2
	Wash 1	P4 Wash 1	
	Beginning of step	Precollect	No
		Release time, speed	00:00:05, Slow
	Mixing / heating:	Mixing time, speed	00:02:00, Slow
		Heating during mixing	No
	End of step	Postmix	No
		Collect count	3
		Collect time [s]	2
	Wash 2	P5 Wash 2	
	Beginning of step	Precollect	No
		Release time, speed	00:00:05, Slow
	Mixing / heating:	Mixing time, speed	00:02:00, Slow
		Heating during mixing	No
	End of step	Postmix	No
		Collect count	3
		Collect time [s]	2

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	Wash 3	P6 Wash 3	
	Beginning of step	Precollect	No
		Release time, speed	00:00:05, Slow
	Mixing / heating:	Mixing time, speed	00:02:00, Slow
		Heating during mixing	No
	End of step	Postmix	No
		Collect count	3
		Collect time [s]	2
	Elute	P7 Elution	
	Beginning of step	Precollect	No
		Release time, speed	00:00:05, Slow
	Mixing / heating:	Mixing time, speed	00:10:00, Slow
		Heating during mixing	No
	End of step	Postmix	No
		Collect count	3
		Collect time [s]	2
	ReleaseBeads1	P1 Microspheres	
		Release time, speed	00:00:10, Medium
	Leave	Tip Plate	