

Progenta™ Acid Labile Surfactant Selection Guide

	Anionic Acid Labile Surfactant		Zwitterionic Acid Labile Surfactant		Cationic Acid Labile Surfactant		Non-Ionic Acid Labile Surfactant	
Product Information	AALS I	AALS II	ZALS I	ZALS II	CALS I	CALS II	NALS I	NALS II
Common Detergents for Replacement by Progenta Acid Labile Surfactants	sodium dodecyl sulfate (SDS), ammonium lauryl sulfate, perfluorooctanoate, sodium cholate, sodium deoxycholate		CHAPS, CHAPSO, dodecyl betaine, cocamidopropyl betaine, coco ampnoglycinate		lauryl pyridinium chloride, lauryldimethylamine-oxide (LDAO), cetyltrimethylammonium bromide (CTAB)		Triton X-100, Tween 20, Tergitol® Type NP-40	
CMC	7.7 mM	1.9 mM	3.4 mM	31.3 mM	3.5 mM	12.8 mM	2.1 mM	5.3 mM
Recommended concentration	0.01 - 2.0%	0.01 - 2.0%	0.01 - 0.1%	0.01 - 0.1%	0.01 - 1.0%	0.01 - 1.0%	0.01 - 1.0%	0.01 - 1.0%
pH for surfactant cleavage	2.0 - 3.0	2.0 - 3.0	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.5 - 3.0	2.5 - 3.0
Degradation reagent	1% TFA; 5-10% Formic Acid	1% TFA; 5-10% Formic Acid	1% TFA; 5-10% Formic Acid	1% TFA; 5-10% Formic Acid	1% TFA; 5-10% Formic Acid	1% TFA; 5-10% Formic Acid	1% TFA; 5-10% Formic Acid	1% TFA; 5-10% Formic Acid
Charge	Negative	Negative	Net Zero	Net Zero	Positive	Positive	No Charge	No Charge
Application								
Protein solubilization	X	X	X	X	X	X	X	X
Cell lysis	X	X	X	X			X	X
Sample preparation and solid phase extraction	X	X	X	X	X	X	X	X
Enzymatic digestions	X	X	X	X	X	X	X	X
Electroelution buffers	X	X			X	X		
Immunoprecipitation	X	X						
2D gel electrophoresis buffers			X	X				
Individual Part Numbers	ALS-100-1 ALS-100-5 ALS-100-10	ALS-110-1 ALS-110-5 ALS-110-10	ALS-200-1 ALS-200-5 ALS-200-10	ALS-210-1 ALS-210-5 ALS-210-10	ALS-300-1 ALS-300-5 ALS-300-10	ALS-310-1 ALS-310-5 ALS-310-10	ALS-400-1 ALS-400-5 ALS-400-10	ALS-410-1 ALS-410-5 ALS-410-10
Assortment Part Numbers	ALS-500 ALS-501 ALS-502	ALS-500 ALS-501 ALS-502	ALS-500 ALS-501 ALS-503	ALS-500 ALS-501 ALS-503	ALS-500 ALS-502 ALS-503	ALS-500 ALS-502 ALS-503	Not Available	Not Available