

FORMULATION

Cost Savings Laundry Detergent

Overview

- Excellent performance without the cost
- Soltellus 2101S boosts enzymes and acts as a sequestrant and dispersant, allowing for the reduction of anionic surfactant
- Made with biodegradable ingredients

Composition

	Trade Name	INCI	% w/w	Function	
A		Water	q.s. to 100		
		Sodium citrate	3	Biodegradable chelant	
		Soltellus 2101S (Lygos)	Sodium polyaspartate	1	Biodegradable dispersant, sequestrant, enzyme booster
			Oleic acid	0.75	Biodegradable anti-foamer
		Eco Brij L6 (Croda)	Laureth-6 (100% active)	5	Biodegradable nonionic surfactant
		Stepanol WA-Extra HP (Stepan)	Sodium Lauryl Sulfate (30% active)	13.5	Biodegradable anionic surfactant
B		NaOH or Citric acid		pH adjuster	
		NaCl		Viscosity modifier	
C	Add the following ingredients when the formula has cooled down (if using a heated process)				
	Liquinase Evity 3.5 L (Novonesis)	Protease	0.8	Stain removal	
	Amplify Prime 100 L (Novonesis)	Amylase	0.13	Stain removal	
	Mannaway 200 L (Novonesis)	Mannanase	0.02	Stain removal	
	Acticide MBS (Thor)	Methylisothiazolinone/ Benzisothiazolinone	0.5	Biodegradable preservative	

Procedure

Add ingredients in the order listed, mixing until fully dissolved after each addition. Dissolve each ingredient completely before adding the next one. Adjust pH to 8 with NaOH. Adjust viscosity using NaCl. Always add enzymes and the preservative when the mixture has cooled down (if you are using temperature in your process).

Technical Specifications

Parameter	Value
Appearance (25°C)	Clear Liquid
pH (as is)	7.8-8.2
Viscosity (cPs)	210-280
Stability (1 Month, 40°C)	Stable
Dose	45 ml

Performance (Stain removal)

Suggested method: ASTM D4265-14, using CFT SM-04 as the stain set

