

**TECHNICAL REPORT:**  
**PROBIOTIC BOVINE HIDE SOAKING SYSTEM**

General guidelines. Process in drums (quantities need to be adjusted when using mixer, paddles or cangilones drums)

% are calculated on **raw** weight (adjustments have to be considered according preservation methods: fresh, cured,...)

PROCESS	%	Product	Time Minutes	Control				Comments
				T ° C	pH	Bè	R.P.M.	
Pre-Soaking	80-150	Water		26-28			Low	Preservation, bacteria, dirtiness, fat smell % higher for salted hides % depending of superficial grease.
	0-0.2	<b>ProDegreaze</b>	15					
	0.1-0.3	<b>ProSpread</b>	60-180		6.5-7.5	<4-6		
<b>Drain</b>								
Wash	150	Water		26-28			Low	Wash if necessary to adjust °Bè, but consider effluent discharges restrictions and water consuming
	0.1-0.2	<b>ProSpread</b>	20		6.5-7.5	<4-6		
<b>Drain</b>								
Main soaking	100-150	Water		26-28			High	% higher for fresh hides. Drain and new float is also possible Sodium carbonate/Magnesium Oxide/Sodium hydroxide...
	0.2-0.5	<b>ProSoak</b>	30-120		6.5-7.5		Low	
	x	Alkali (adjust pH) <i>Add in several doses</i>	60-180		Check during process			
		Run automatic 5 minutes x 1 hour	4-8 hours		8.5-9.5	2	Control and adjust pH if necessary. Avoid swelling  Check soaking: white cut. Cross section pH. Open fibers (spongy effect)	
<b>Drain</b>								
Continue process with unhairing / liming.								

The data above are based on our current knowledge, experience and tests conducted.  
Since results may vary based on local procedures and condition we recommend that customers verify product performance conducting their own test.