

ERRATUM

Erratum to: De-oiled neem cake as potential bio-additive for low-salt raw skin preservation: a process for salinity reduction in tanneries

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In the original publication of the article unfortunately a part of Table 11 (in the Appendix) was omitted. The correct and complete version of Table 11 is given on the next page.

The online version of the original article can be found under doi:[10.1007/s13762-016-0994-3](https://doi.org/10.1007/s13762-016-0994-3).

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Table 11 Process description for processing cured goat skins into leather

Process	Quantity	Product	Duration	Remarks
Soaking I (skin weight 333 g)	300 % (1 l) 0.5 % (5 g/l)	Water Wetting agent	30 min	Float was drained and aliquot was tested for TDS
Soaking II	300 % (1 l) 0.1 (1 g/l) 0.5 % (5 g/l)	Water Preservative Wetting agent	Left overnight	Float was drained and aliquot was tested for TDS
Next day washing	200 % (650 ml)	Water		
Liming (skin weight 320 g)	25 % (80 ml) 10 % (400 g/l) 3 % (120 g/l) 0.5 % (20 g/l)	Water Lime Sodium sulphide Wetting agent	Left overnight	Paint prepared and applied on flesh side
Unhairing				Next day the hair was removed over beam
Reliming (skin weight 250 g)	200 % (500 ml) 5 % (25 g/l)	Water Lime	Left for 2 days	
Fleshing				The limed pelts were fleshed and taken for washing
Washing	200 % (500 ml)	Water	10 min	
Deliming (skin weight 200 g)	150 % (300 ml) 1 % (6.66 g/l) 1 % (6.66 g/l)	Water Ammonium chloride Bating agent	Run for 1 h	Washed and drained pH 8–8.5
Washing	100 % (150 ml)	Water	10 min	
Pickling (skin weight 150 g)	80 % (120 ml) 8 % (100 g/l) 1 % (12.5 g/l) 0.5 % (6.25 g/l)	Water Sodium chloride Formic acid Sulphuric acid	Run for 15 min 3 × 10 min, run for 10 min 4 × 15 min, run for 1 h	pH 2.8–3
Next day the pelts drummed for 30 min pH at cross section adjusted to 2.8–3.0. Then 50 % of pickle bath drained				
Chrome tanning	8 % (120 g/l) 0.5 % (5 g/l) 1 % (10 g/l)	Basic chromium sulphate (BCS) Sodium formate Sodium bicarbonate	2 × 30 min 10 min 3 × 20 min, run for 1 h	Check for penetration in cross section Check the pH to be 3.8–4. Drain the bath and pile overnight
Next day sammed and shaved to 1.0 mm. The shaved weight noted				
Washing	200 % (300 ml)	Water	10 min	Drain
Neutralization	150 % (225 ml) 0.5 % (3.33 g/l) 0.5 % (3.33 g/l)	Water Sodium formate Sodium bicarbonate	10 min 3 × 10 min + 1 h	pH 5–5.5
Washing	100 % (150 ml)	Water	10 min	
Dyeing and fatliquoring	100 % (150 ml) 2 % (20 g/l) 10 % (100 g/l) 8 % (80 g/l) 1 % (10 g/l)	Water Dye Fatliquor Syntan Formic acid	1 h 45 min 3 × 5 min + 40 min	pH 3.5 Drain/wash/drain/pile over night/next day hooked to dry

