



BATING WITH POULTRY MANURE

Bathing can soften the dermis by weakening its elastin (which makes the skin rigid) and can complete its cleansing, removing the last keratin residues

BEAM-HOUSE

TANNING

RETANNING

DRYING

OBAINED LEATHERS

Excellent results obtained with the use of P120 Deodorized Poultry Manure DPM in the production of various leather articles compared with the reference ones already on the market



CURRENT RESULTS

Trial code	Tear strength	Tensile strength	Elongation at break
Standard	> 35N	> 15 N/mm ²	> 40%
P120	> 35N	> 15 N/mm ²	> 40%

QUALITY ASSESSMENT OF LEATHER

Trial code	Leather's structure	Cleaning surface	Smell during process	Smell on finished leather
Standard	relaxed	clean	light	no
P120	very similar	very similar	very similar	no

PODEBA
FOWL MANURE BATING



ENZYME ACTIVITY OF POULTRY MANURE

Manure contains Carbon, mineral salts, nutrients (nitrogen, phosphorus, ...) but tannery is interested in the content of proteolytic enzymes.

The enzymatic activity was determined with a standard method and with a method specifically developed in the project.



THE ENVIRONMENTAL IMPACT

Odor impact

- P120 manure with less impact (dry conditions)
- In bathing (wet process) no odor additions are evident with P120

Process waters

Reduction of the polluting load in bathing wastewater: BOD, COD, conductivity, TKN, ammonia, sulphides

WASTEWATER CHARACTERIZATION NTK

