

## **“All Natural Soaking Process”**

**For all kind of raw hides and skins and any kind of preservation process.**

Proviaera’s “All Natural Soaking Process” is based on the effects of metabolites resulting from a controlled fermentation of selected natural ingredients with cultures of probiotics microorganisms.

Most of the non-desirable substances contained in raw hides and skins are stripped and dispersed in the float.

Hydrofile metabolites speed up the wetting of the collagen weave to enhance the interaction with all the substances used in the leather process to confer stability and article performances.

- No chemicals: no need of synthetic surfactants
- No enzymes: that require strict controls of their activity to avoid irreparable damages.
- No bactericides: Metabolites inhibit the action of bacteria and delays putrefaction.

### Advantages:

- Improve the quality of tannery effluents because of the reduction of effluent charges like COD and BOD.
- Improve benefits because:
  - Reduction of water consumption. No need of pre-soaking
  - Reduction of process time of draining and uploading drums.
  - Reduction of chemicals
  - Competitive process costs
- Improve leather quality because:
  - Hides and skins are fuller
  - Efficiency and dispersing effect of organic processing chemicals.

Flexibility: Proviaera biochemicals are compatible with all other products normally used in the leather, therefore, their application can be adapted to other customized processes.

