## **Exploring Stability of Vegetable Tanned Leathers Resistance to Bases**

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**Abstract:** The readily biodegradable vegetable tanning is re-emerging as principal tanning material to offset the perceived concerns of chrome tanning. It calls for overcoming the inherent shortcomings associated with the traditional vegetable tanning system, which are inadequate strength and resistance to chemicals. In addition, study about vegetable tanned leather wastes has become a new focus, with increasing applications of vegetable tanned leathers. It is indispensable to know the resistance of different kinds of vegetable tanned leather to chemicals. The stability of resistance to bases and heating that include vegetable tannin extracts of hydrolysable and condensation tannin and their leathers were studied, the reaction solution was analyzed using ultraviolet-visible spectrophotometer by the method of repeat scanning wavelength and determining the pH value. It was found that the resistance of vegetable tannin to bases is bigger than that of hydrolysable tannin. But the resistance of leather tanned by hydrolysable tannin to bases and heating are higher than those of condensation notably. The cross-link between collagen fiber and the varieties of vegetable tannin extracts was discussed in light of the results, and the stability of various vegetable tannin extracts and their leather resistance to bases was expla ined.

Key words: condensation tannin; hydrolysable tannin; vegetable tanned leather; resistance to bases