list_extensionality[11,40]

$\forall T$:Type, a, b:(T List).
$(\|a\| = \|b\| \in \mathbb{Z}) \Rightarrow (\forall i{:}\mathbb{N}.\ (i < \|a\|) \Rightarrow (a[i] = b[i] \in T)) \Rightarrow (a = b)$

ProofTree

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http://www.nuprl.org/FDLcontent/p0_802137_/p89_117421_{list_extensionality}.html