```
hnot_eq_list  THM

⊢  ∀'a:S.
   all
   (λh1:'a. all
            (λh2:'a. implies
                     (not(equal(h1,h2))
                     ,all
                      (λl1:hlist
                       ('a). all
                             (λl2:hlist('a). not
                                             (equal
                                              (cons(h1,l1)
                                              ,cons(h2,l2))))))))
  by HOL "hnot_eq_list"
END
```