```
hlist_axiom  THM

⊢  ∀'b,'a:S.
   all
   (λx:'b. all
           (λf:'b
            → 'a
            → hlist('a)
            → 'b. exists_unique
                   (λfn1:hlist('a) → 'b. and
                                          (equal(fn1(nil),x)
                                          ,all
                                           (λh:'a. all
                                                   (λt:hlist
                                                    ('a). equal
                                                          (fn1
                                                           (cons(h,t))
                                                          ,f
                                                           (fn1(t)
                                                           ,h
                                                           ,t))))))))
  by HOL "hlist_axiom"
END
```