```
unique_fn_over_empty  THM

⊢  ∀A,B:Type. ¬(∃∈A) ⇒ (∃!∈(A→B))  by Auto
|
1. A : Type
2. B : Type
3. ¬(∃∈A)
⊢  ∃!∈(A→B)  by Witness: λx.x
|
|\
| 4. x : A
| ⊢  x ∈ B  by HypsImpossibleBy Analyze3
|
.\
. 4. y : A→B
. ⊢  (λx.x) = y  by FunExtensionality
. |
. |\
. | 5. x : A
. | ⊢  x = y(x) ∈ B  by HypsImpossibleBy Analyze3
. |
. .\
. . 5. x : A
. . ⊢  x ∈ B  by HypsImpossibleBy Analyze3
END
```