```
map_equal2  THM

⊢  ∀T,T':Type, a:T List, f,g:(T→T').
|  (∀x:T. (x ∈ a) ⇒ f(x) = g(x)) ⇒ map(f;a) = map(g;a)
| by UnivCD THENA Auto
|
1. T : Type
2. T' : Type
3. a : T List
4. f : T→T'
5. g : T→T'
6. ∀x:T. (x ∈ a) ⇒ f(x) = g(x)
⊢  map(f;a) = map(g;a)  by BackThruLemma `map_equal` THEN Auto
|
1. T : Type
2. T' : Type
3. a : T List
4. f : T→T'
5. g : T→T'
6. ∀x:T. (x ∈ a) ⇒ f(x) = g(x)
7. i : ℕ
8. i<||a||
⊢  f(a[i]) = g(a[i])  by BackThruSomeHyp
|
1. T : Type
2. T' : Type
3. a : T List
4. f : T→T'
5. g : T→T'
6. ∀x:T. (x ∈ a) ⇒ f(x) = g(x)
7. i : ℕ
8. i<||a||
⊢  (a[i] ∈ a)  by Unfold `l_member` 0 THEN InstConcl [i] THEN Auto
END
```