```
stable__function_equal  THM

⊢  ∀f,g:(A→B). (∀x:A. Stable{f(x) = g(x)}) ⇒ Stable{f = g}
| by Unfold ‘stable‘ 0
|
1. A : Type
2. B : Type
3. f : A→B
4. g : A→B
5. ∀x:A. ¬¬f(x) = g(x) ⇒ f(x) = g(x)
6. ¬¬f = g
⊢  f = g  by ExtWith [] [A→B]
|
7. x : A
⊢  f(x) = g(x)  by BackThru 5
|
⊢  ¬¬f(x) = g(x)  by Analyze 0
|
8. ¬f(x) = g(x)
⊢  False  by Analyze 6
|
6. x : A
7. ¬f(x) = g(x)
⊢  ¬f = g  by Analyze 0
|
8. f = g
⊢  False  by Analyze 7
|
7. f = g
⊢  f(x) = g(x)  by Analyze
END
```