```
lang_closure_functionality  THM

⊢  ∀L,L':LangOver(Alph). L = L' ⇒ (L↑∞) = (L'↑∞)
| by Unfold ‘lang_closure‘ 0 THEN UnivCD
|
1. Alph : Type
2. L : LangOver(Alph)
3. L' : LangOver(Alph)
4. L = L'
⊢  λl.∃n:ℕ. (L↑n)(l) = λl.∃n:ℕ. (L'↑n)(l)  by Unfold ‘lang_eq‘ 0
|
⊢  ∀l:Alph*. (λl.∃n:ℕ. (L↑n)(l))(l) ⟺ (λl.∃n:ℕ. (L'↑n)(l))(l)
| by Reduce 0
|
⊢  ∀l:Alph*. (∃n:ℕ. (L↑n)(l)) ⟺ (∃n:ℕ. (L'↑n)(l))
| by RWH (HypC 4) 0 THEN Try (Fold ‘languages‘ 0)
|
⊢  ∀l:Alph*. (∃n:ℕ. (L'↑n)(l)) ⟺ (∃n:ℕ. (L'↑n)(l))
  by Auto THEN Fold ‘languages‘ 0
END
```