```
lang_eq_inversion  THM

⊢  ∀L,M:LangOver(Alph). L = M ⇒ M = L  by UnivCD
|
1. Alph : Type
2. L : LangOver(Alph)
3. M : LangOver(Alph)
4. L = M
⊢  M = L  by Unfold ‘lang_eq‘ 0 THEN Unfold ‘lang_eq‘ 4
|
4. ∀l:Alph*. L(l) ⟺ M(l)
⊢  ∀l:Alph*. M(l) ⟺ L(l)  by Analyze 0
|
5. l : Alph*
⊢  M(l) ⟺ L(l)  by Witness4 l
|
4. l : Alph*
5. L(l) ⟺ M(l)
⊢
  by Unfold ‘languages‘ 2 THEN Unfold ‘languages‘ 3
     THEN
     RWH (HypC 5) 0
END
```