```
quo_list_accept  THM

⊢  ∀Auto:Automata(Alph;St)
|  , l:x,y:Alph*//(x LangOf(Auto)-induced Equiv y). Auto(l)↓ ∈ 𝔹
| by Analyze 0 THEN Analyze 0 THEN Analyze 0
|    THEN
|    Inst
|    Thm* ∀L:LangOver(A). EquivRel x,y:A*. x L-induced Equiv y
|    {lang_rel_equi}
|    [Alph;LangOf(Auto)]
|
1. Alph : Type
2. St : Type
3. Auto : Automata(Alph;St)
4. EquivRel x,y:Alph*. x LangOf(Auto)-induced Equiv y
⊢  ∀l:x,y:Alph*//(x LangOf(Auto)-induced Equiv y). Auto(l)↓ ∈ 𝔹
| by Analyze 0
|
5. l : x,y:Alph*//(x LangOf(Auto)-induced Equiv y)
⊢  Auto(l)↓ ∈ 𝔹  by Analyze 5
|
5. l1 : Alph*
6. l2 : Alph*
7. l1 LangOf(Auto)-induced Equiv l2
⊢  Auto(l1)↓ = Auto(l2)↓
| by Unfold ‘lang_rel‘ 7 THEN Reduce 7 THEN Witness7 nil
|    THEN
|    Reduce 7
|
7. LangOf(Auto)(l1) ⟺ LangOf(Auto)(l2)
⊢
  by Unfold ‘auto_lang‘ 7 THEN Reduce 7
     THEN
     BackThru Thm* ∀a,b:𝔹. (a ⟺ b) ⇒ a = b    {iff_imp_equal_bool}
END
```