```
min_auto_comp  THM

⊢  ∀Auto:Automata(Alph;St), l:Alph*.
|  (Result(MinAuto(Auto))l)
|  =
|  l
|  ∈ x,y:Alph*//(x LangOf(Auto)-induced Equiv y)  by UnivCD
|
1. Alph : Type
2. St : Type
3. Auto : Automata(Alph;St)
4. l : Alph*
⊢  (Result(MinAuto(Auto))l) = l
| by Inst
|    Thm* ∀L:LangOver(A). EquivRel x,y:A*. x L-induced Equiv y
|    {lang_rel_equi}
|    [Alph;LangOf(Auto)]
|
5. EquivRel x,y:Alph*. x LangOf(Auto)-induced Equiv y
⊢   by Unfold `min_auto` 0
|
⊢  (Result(A(λl.Auto(l)↓))l) = l
| by BackThru
|    Thm* ∀L:LangOver(Alph), g:((x,y:Alph*//(x L-induced Equiv y))→𝔹)
|         , l:Alph*.
|         (Result(A(g))l) = l ∈ x,y:Alph*//(x L-induced Equiv y)
|    {lang_auto_compute}
|    THENL
|    [Auto;Auto;Id;Auto]
|
.....wf .....
⊢  (λl.Auto(l)↓) ∈ (x,y:Alph*//(x LangOf(Auto)-induced Equiv y))→𝔹
  by Analyze
     THENL
     [BackThru
      Thm* ∀Auto:Automata(Alph;St)
           , l:x,y:Alph*//(x LangOf(Auto)-induced Equiv y).
           Auto(l)↓ ∈ 𝔹
      {quo_list_accept}
     ;Id]
END
```