```
compute_list_wf  THM

⊢  ∀Alph,St:Type, A:Automata(Alph;St), l:Alph*. (Result(A)l) ∈ St
| by UnivCD
|
1. Alph : Type
2. St : Type
3. A : Automata(Alph;St)
4. l : Alph*
⊢  (Result(A)l) ∈ St  by ListInd 4
|
|\
| ⊢  (Result(A)nil) ∈ St  by RecCaseSplit `compute_list`
| |
| |\
| | .....truecase .....
| | 5. null(nil)
| | ⊢  InitialState(A) ∈ St  by Auto
| |
| .\
| . 5. ¬null(nil)
| . ⊢  δA((Result(A)nil),"?") ∈ St  by Reduce 5
| . |
| . 5. ¬True
| . ⊢   by Analyze 5
|
.\
. 5. u : Alph
. 6. v : Alph*
. 7. (Result(A)v) ∈ St
. ⊢  (Result(A)u.v) ∈ St  by RecCaseSplit `compute_list`
END
```