```
incl_aux5_quo  THM

⊢  ∀E:(T→T→Prop).
|  (EquivRel x,y:T. x E y) ⇒
|  (∀x,y:T. x = y ⇒ x = y ∈ u,v:T//(u E v))  by UnivCD
|
1. T : Type
2. E : T→T→Prop
3. EquivRel x,y:T. x E y
4. x : T
5. y : T
6. x = y
⊢  x = y  by Analyze
|
⊢  x E y
| by (Unfolds [‘equiv_rel‘] 3) THEN (Unfold ‘refl‘ 3)
|    THEN
|    (Analyze 3)
|
3. ∀a:T. a E a
4. Sym x,y:T. x E y & Trans x,y:T. x E y
5. x : T
6. y : T
7. x = y
⊢   by InstHyp [x] 3
|
8. x E x
⊢   by RevHypSubst 7 0
END
```