```
list_1_1_nat  THM

⊢  ∀q:ℕ+. (ℕq*) ~ ℕ  by Analyze 0
|
1. q : ℕ+
⊢  (ℕq*) ~ ℕ
| by RWH
|    (RevLemmaC
|     Thm* (∃f:(A→B). Bij(A; B; f)) ⟺ (A ~ B)    {bij_iff_1_1_corr})
|    0
|
⊢  ∃f:(ℕq*→ℕ). Bij(ℕq*; ℕ; f)  by Witness λl.enum(l)
|
⊢  Bij(ℕq*; ℕ; λl.enum(l))
| by UnfoldTopAb 0 THEN Analyze 0 THEN UnfoldTopAb 0 THEN Reduce 0
|
|\
| ⊢  ∀a1,a2:ℕq*. enum(a1) = enum(a2) ⇒ a1 = a2  by UnivCD
| |
| 2. a1 : ℕq*
| 3. a2 : ℕq*
| 4. enum(a1) = enum(a2)
| ⊢  a1 = a2
|   by BackThru
|      Thm* ∀q:ℕ+, l1,l2:ℕq*. enum(l1) = enum(l2) ⇒ l1 = l2
|      {enum_inj}
|
.\
. ⊢  ∀b:ℕ. ∃a:ℕq*. enum(a) = b  by Analyze 0
. |
. 2. b : ℕ
. ⊢  ∃a:ℕq*. enum(a) = b
. | by Inst Thm* ∀q:ℕ+, a:ℕ. ∃l:ℕq*. enum(l) = a    {enum_surj} [q;b]
. |
. 3. ∃l:ℕq*. enum(l) = b
. ⊢   by Analyze 3
. |
. 3. l : ℕq*
. 4. enum(l) = b
. ⊢   by Witness l
. |
. ⊢  enum(l) = b  by Auto
END
```