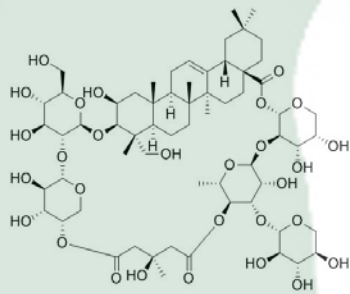


| | | |
|-----------------------|---------------------------------------|---|
| PRODUCT ID | E-0502 | Structure  |
| PRODUCT | Tubeimoside A/土贝母皂苷甲 | |
| STANDARD TYPE | Quantitative Reference Standard/ 含量测定 | |
| LOT NUMBER | 17110122 | |
| ASSAY METHOD | HPLC,MS,NMR | |
| DATE OF SAMPLE | 2017-11-01 | |
| DATE OF REPORT | 2017-11-01 | |

| | |
|-----------------------------|--|
| OTHER NAME | 土贝母昔甲;Tubeimoside I;Lobatoside H |
| CHEMICAL FORMULA | C ₆₃ H ₉₈ O ₂₉ |
| MOLECULAR WEIGHT(MW) | 1319.43 |
| CAS NUMBER | 102040-03-9 |
| CHEMICAL FAMILY | Triterpenoids 三萜类 |
| FROM | 葫芦科植物假贝母Bolbostemma paniculatum[Maxim] Franquet的鳞茎 |

ANALYTICAL RESULT

| TEST | METHOD | SPECIFICATION | RESULT |
|------------------|---------------|---------------|----------|
| HPLC | Q/TFFK21—2004 | NLT ≥97.0% | Conforms |
| NMR | | Conforms | Conforms |
| MS | | Conforms | Conforms |
| Residual Solvent | Q/TFFK21—2004 | NA | ND |
| Water | Q/TFFK21—2004 | ≤2% | Conforms |
| Appearance | | White Powder | Conforms |

STORAGE CONDITIONS

| | |
|------------|--------------------|
| STORAGE | Refer to the label |
| SHELF LIFE | 2 Years |

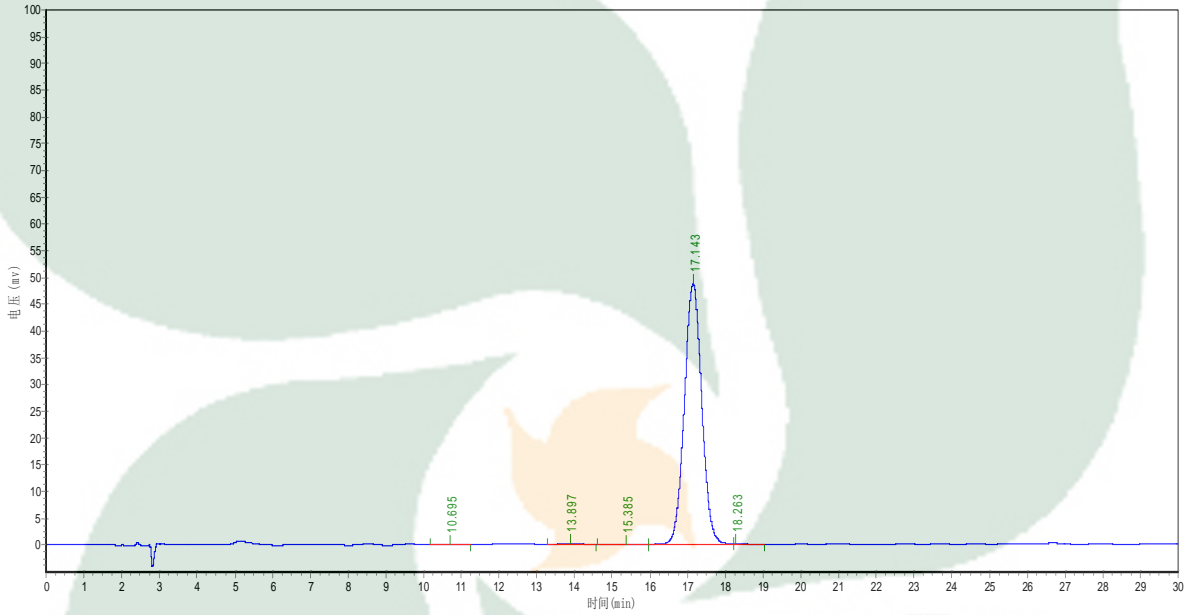
Analyst

Checker

Manager

Product Analysis Report

Product Name: Tubeimoside A **Chrom-Column:** C18
Lot Number: 17110122 **Mobile Phase:** MeOH:H2O=65: 35
Detector: UV **Wavelength:** 214nm
Detect Time: 2017-11-01 **Inject Vol:** 20ul
Analyst: zhanghong **Flow:** 1.0ml/min



| No. | Ret.Time min | Height mAU | Area mAU*min | Rel.Area % |
|-----|-----------------|---------------|-----------------|---------------|
| 1 | 10.695 | 95.562 | 2630.000 | 0.1646 |
| 2 | 13.897 | 295.885 | 11495.400 | 0.7194 |
| 3 | 15.385 | 115.144 | 6899.542 | 0.4318 |
| 4 | 17.143 | 48737.797 | 1571385.000 | 98.3421 |
| 5 | 18.263 | 275.751 | 5465.733 | 0.3421 |