



同田生物
TAUTO BIOTECH

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销售热线：400-820-3059

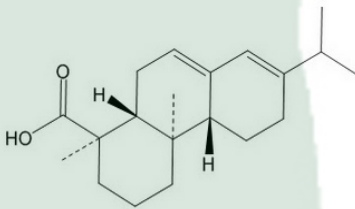
86-21-51320588-8008/8035/8026/8025

传真：86-21-51320502

QQ:800015916

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| | | |
|-----------------------|-------------------------|--|
| PRODUCT ID | E-1549 | Structure  |
| PRODUCT | Abietic acid/松香酸 | |
| STANDARD TYPE | Qualitative Analysis/鉴别 | |
| LOT NUMBER | 18041122 | |
| ASSAY METHOD | HPLC,MS,NMR | |
| DATE OF SAMPLE | 2018-04-11 | |
| DATE OF REPORT | 2018-04-11 | |

OTHER NAME NA
CHEMICAL FORMULA C₂₀H₃₀O₂
MOLECULAR WEIGHT(MW) 302.45
CAS NUMBER 514-10-3
CHEMICAL FAMILY Diterpenoids

ANALYTICAL RESULT

| TEST | METHOD | SPECIFICATION | RESULT |
|------------------|----------------|---------------|----------|
| HPLC | Q/TFFK165—2007 | NLT ≥88% | 88.7% |
| NMR | | Conforms | Conforms |
| MS | | Conforms | Conforms |
| Residual Solvent | Q/TFFK165—2007 | NA | ND |
| Water | Q/TFFK165—2007 | ≤2% | Conforms |
| Appearance | | white powder | Conforms |

STORAGE CONDITIONS

STORAGE Refer to the label
SHELF LIFE 2 Years

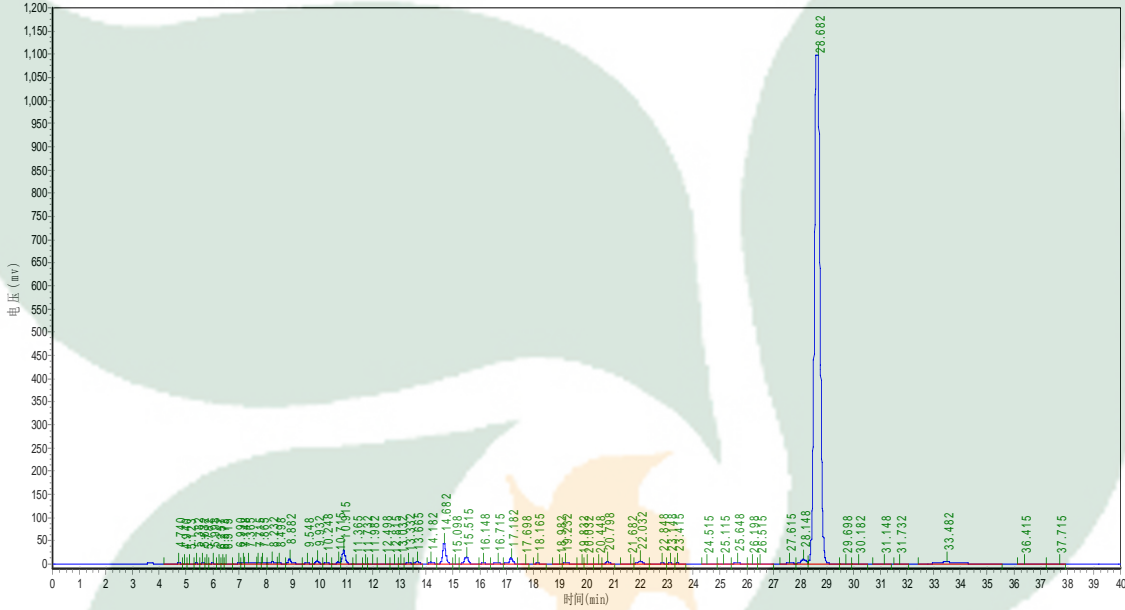
Analyst

Checker

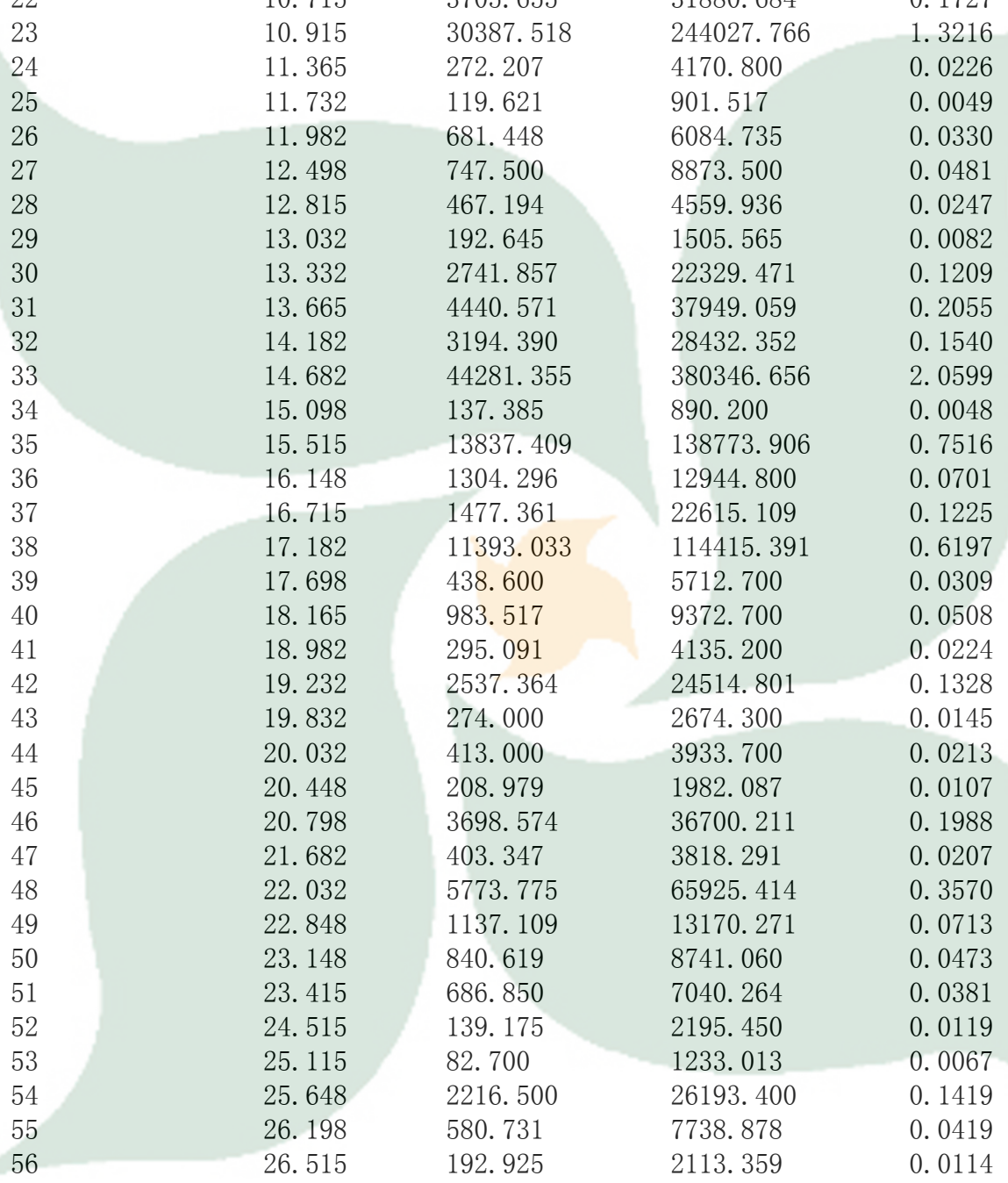
Manager

Product Analysis Report

Product Name: Abietic acid **Chrom-Column:** Arcus C18
Lot Number: 18041122 **Mobile Phase:** ACN:0.01%H3PO4(grads)
Temperature: 25°C **Wavelength:** 241nm
Detect Time: 2018-04-11 **Inject Vol:** 20ul
Sample dissolution: 95%MeOH **Flow:** 1.0ml/min



| No. | Ret.Time min | Height mAU | Area mAU*min | Rel.Area % |
|-----|--------------|------------|--------------|------------|
| 1 | 4.740 | 1917.276 | 20010.160 | 0.1084 |
| 2 | 4.940 | 689.138 | 5507.655 | 0.0298 |
| 3 | 5.123 | 742.345 | 8715.328 | 0.0472 |
| 4 | 5.382 | 1141.000 | 9624.209 | 0.0521 |
| 5 | 5.632 | 1511.828 | 12760.063 | 0.0691 |
| 6 | 5.782 | 825.724 | 5031.446 | 0.0272 |
| 7 | 5.998 | 997.241 | 13998.586 | 0.0758 |
| 8 | 6.257 | 564.897 | 4163.324 | 0.0225 |
| 9 | 6.373 | 620.483 | 4268.367 | 0.0231 |
| 10 | 6.515 | 688.552 | 8362.295 | 0.0453 |
| 11 | 6.990 | 1159.724 | 12838.793 | 0.0695 |
| 12 | 7.148 | 1446.448 | 10663.175 | 0.0577 |
| 13 | 7.365 | 2305.966 | 50946.184 | 0.2759 |
| 14 | 7.715 | 1694.724 | 13548.766 | 0.0734 |
| 15 | 7.865 | 1452.621 | 16690.807 | 0.0904 |



| | | | | |
|----|--------|-------------|--------------|---------|
| 16 | 8.232 | 3848.034 | 46331.629 | 0.2509 |
| 17 | 8.498 | 1438.517 | 15693.514 | 0.0850 |
| 18 | 8.882 | 9494.586 | 88747.945 | 0.4806 |
| 19 | 9.548 | 2596.793 | 23423.607 | 0.1269 |
| 20 | 9.932 | 6343.862 | 52147.895 | 0.2824 |
| 21 | 10.248 | 1683.310 | 19973.914 | 0.1082 |
| 22 | 10.715 | 3705.655 | 31880.684 | 0.1727 |
| 23 | 10.915 | 30387.518 | 244027.766 | 1.3216 |
| 24 | 11.365 | 272.207 | 4170.800 | 0.0226 |
| 25 | 11.732 | 119.621 | 901.517 | 0.0049 |
| 26 | 11.982 | 681.448 | 6084.735 | 0.0330 |
| 27 | 12.498 | 747.500 | 8873.500 | 0.0481 |
| 28 | 12.815 | 467.194 | 4559.936 | 0.0247 |
| 29 | 13.032 | 192.645 | 1505.565 | 0.0082 |
| 30 | 13.332 | 2741.857 | 22329.471 | 0.1209 |
| 31 | 13.665 | 4440.571 | 37949.059 | 0.2055 |
| 32 | 14.182 | 3194.390 | 28432.352 | 0.1540 |
| 33 | 14.682 | 44281.355 | 380346.656 | 2.0599 |
| 34 | 15.098 | 137.385 | 890.200 | 0.0048 |
| 35 | 15.515 | 13837.409 | 138773.906 | 0.7516 |
| 36 | 16.148 | 1304.296 | 12944.800 | 0.0701 |
| 37 | 16.715 | 1477.361 | 22615.109 | 0.1225 |
| 38 | 17.182 | 11393.033 | 114415.391 | 0.6197 |
| 39 | 17.698 | 438.600 | 5712.700 | 0.0309 |
| 40 | 18.165 | 983.517 | 9372.700 | 0.0508 |
| 41 | 18.982 | 295.091 | 4135.200 | 0.0224 |
| 42 | 19.232 | 2537.364 | 24514.801 | 0.1328 |
| 43 | 19.832 | 274.000 | 2674.300 | 0.0145 |
| 44 | 20.032 | 413.000 | 3933.700 | 0.0213 |
| 45 | 20.448 | 208.979 | 1982.087 | 0.0107 |
| 46 | 20.798 | 3698.574 | 36700.211 | 0.1988 |
| 47 | 21.682 | 403.347 | 3818.291 | 0.0207 |
| 48 | 22.032 | 5773.775 | 65925.414 | 0.3570 |
| 49 | 22.848 | 1137.109 | 13170.271 | 0.0713 |
| 50 | 23.148 | 840.619 | 8741.060 | 0.0473 |
| 51 | 23.415 | 686.850 | 7040.264 | 0.0381 |
| 52 | 24.515 | 139.175 | 2195.450 | 0.0119 |
| 53 | 25.115 | 82.700 | 1233.013 | 0.0067 |
| 54 | 25.648 | 2216.500 | 26193.400 | 0.1419 |
| 55 | 26.198 | 580.731 | 7738.878 | 0.0419 |
| 56 | 26.515 | 192.925 | 2113.359 | 0.0114 |
| 57 | 27.615 | 2235.185 | 29225.805 | 0.1583 |
| 58 | 28.148 | 8337.989 | 133359.297 | 0.7223 |
| 59 | 28.682 | 1097680.750 | 16387366.000 | 88.7511 |
| 60 | 29.698 | 204.236 | 3469.305 | 0.0188 |
| 61 | 30.182 | 234.872 | 3603.749 | 0.0195 |
| 62 | 31.148 | 217.561 | 3336.700 | 0.0181 |