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Certificate of Analysis

Product Name: Atractyloside potassium salt

Other Name:

Catalogue No.: BP0219

Batch No.: 15031205

Report Date: 2015-03-12

CAS Number: 102130-43-8

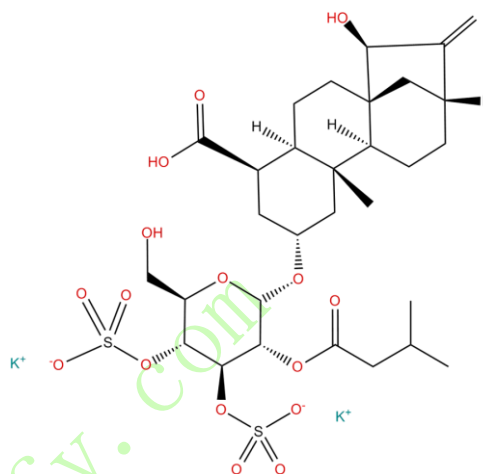
Mol. Formula: C₃₀H₄₄K₂O₁₆S₂

Mol. Weight: 802.983

Identification Method: Mass, NMR

Analysis Method of Purity: HPLC-ELSD

Structure:



Analytical result:

Test	Specification	Results
Appearance	Off-white powder	Off-white powder
Loss on drying	<3%	0.9%
Purity (HPLC-ELSD)*	≥98%	99.83%

* Please find HPLC chromatography attached.

Package: Brown vial or HDPE Plastic Bottle

Storage: Cool and Dry place, protected from light, keep package airproofed when not in use.

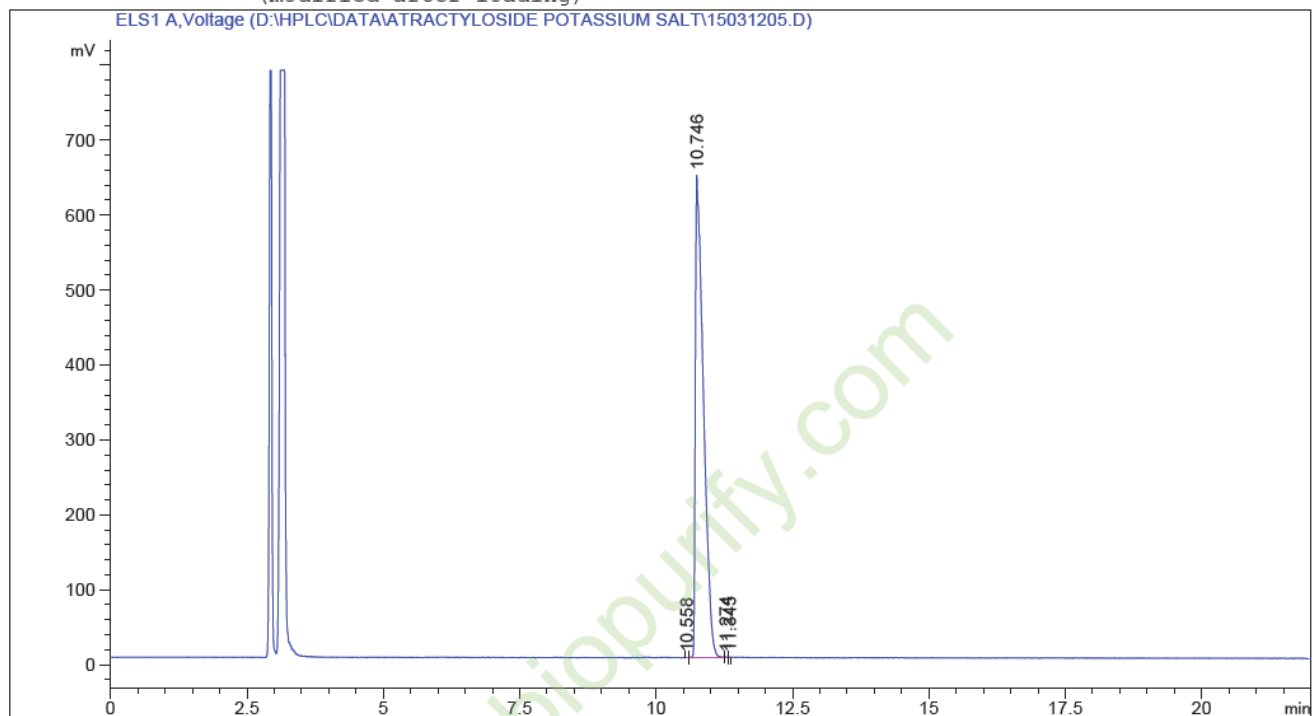
Expiration: two years (2017-03-12) under conditions list above.

QC: *Meng Pan*
 Date: 2015-03-12

QA: *Lianglei Zhang*
 Date: 2015-03-12

Data File D:\HPLC\DATA\ATRACTYLOSIDE POTASSIUM SALT\15031205.D
Sample Name: Atractyloside potassium salt

```
=====
Acq. Operator   : QC
Acq. Instrument : Instrument 1          Location : Vial 74
Injection Date  : 3/12/2015 12:20:48 PM
                                           Inj Volume : 10 µl
Acq. Method     : D:\HPLC\METHOD\ATRACTYLOSIDE A.M
Last changed    : 3/12/2015 12:07:17 PM by QC
                  (modified after loading)
Analysis Method : D:\HPLC\METHOD\YINXINHUANGTONG.M
Last changed    : 3/12/2015 2:04:58 PM by QC
                  (modified after loading)
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Area Percent Report

```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
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Signal 1: ELS1 A, Voltage

Peak #	RetTime [min]	Type	Width [min]	Area [mV*s]	Height [mV]	Area %
1	10.558	VV	0.0436	2.25591	6.99935e-1	0.0338
2	10.746	VV	0.1324	6660.89648	645.60095	99.8323
3	11.274	VV	0.0533	6.28796	1.61891	0.0942
4	11.345	VV	0.0364	2.64230	1.11655	0.0396

Totals : 6672.08266 649.03634

*** End of Report ***