OVERVIEW OF THE GLOBAL WIN-WIN FUTURE

PALMETTO EXTRACT

SI AN SAINA BIOLOGICAL TECHNOLOGY CO.,LTD.

It is a chance to select the correct saw palmetto extract.



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QUALITY ORIGINATED FROM PROFESSION

For over 200 years, saw palmetto has been used to prevent and improve the symptoms associated with BPH with supporting healthy hair growth and preventing hair loss.

Saw palmetto appears to have efficacy similar to that of medications like finasteride, but it is better tolerated and less expensive.

There are no known drug interactions with saw palmetto, and reported side effects are minor and rare.

Our saw Palmetto Oil is produced using by CO₂ SFE at low temperatures without solvents.





We are HERBSINO.

We collaborate with the world to supply dietary supplement.

Our company is focusing on saw palmetto ext, rooted in chemistry, botany and bromatology expertise.

We harness our primary inputs to strengthen our ability to make products that satisfy unmet needs, offer cost effective options to our customers.

More than 20% saw palmetto ext are exported by HERBSINO from china.

We are leading saw palmetto ext from China to the world!

The following information you can obtain:

- Fingerprint of saw palmetto extract.
- The latest version of USP for new requirement of saw palmetto extract.
- The level of certain contaminants of saw palmetto extract in EU regulations.
- Safety of saw palmetto extract taken as dietary supplement.
- How to use HPTLC technology to do ID test for saw palmetto extract.
- Quality system of HERBSINO.
- Production process of saw palmetto extract.
- Water-soluble saw palmetto extract produced by National Starch.



GC fingerprint of Saw palmetto extract

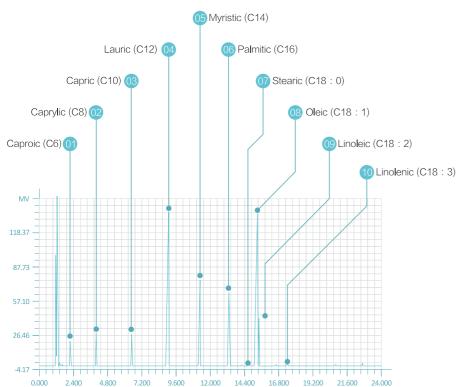
Column: Restek Stabilwax(r) , Carbowax-PEC , 0.25mm \times 50m , 0.25 \upmu @ 110 \upphi -240 \upphi

Injector Temp.: 230°C
Detector Temp.: 250°C
Carrier Gas: H₂
Flow Rate: 2.5 mL/min

Injection: 1 µ L

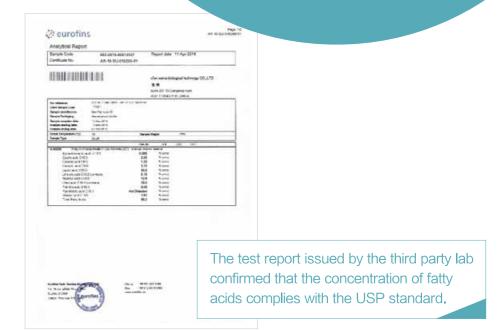
Reference Source: USP36

Peaks:



Regulations of USP36: The ratios of the concentration of lauric acid to the concentration of the respective fatty acid are in the following ranges.

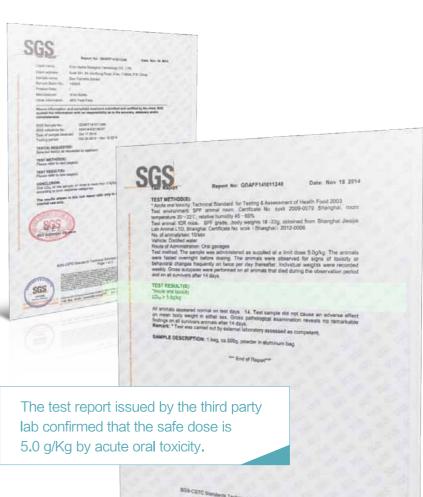
	USP36		HERBSINO	
	Minimum Ratio	Maximum Ratio	Actual ratio	Result
0.59	31.5	55	51.62	⊘
2.66		16	11.35	⊘
1.33	8.5	24	22.71	⊘
3.13	8.5	17.5	9.65	⊘
30.20				
1.61	5	16	5.89	⊘
5.13	2.2	2.8	2.40	⊘
12.60	0.6	1.15	1.04	⊘
29.00	2.8	3.9	3.34	⊘
9.03		26	18.76	⊘







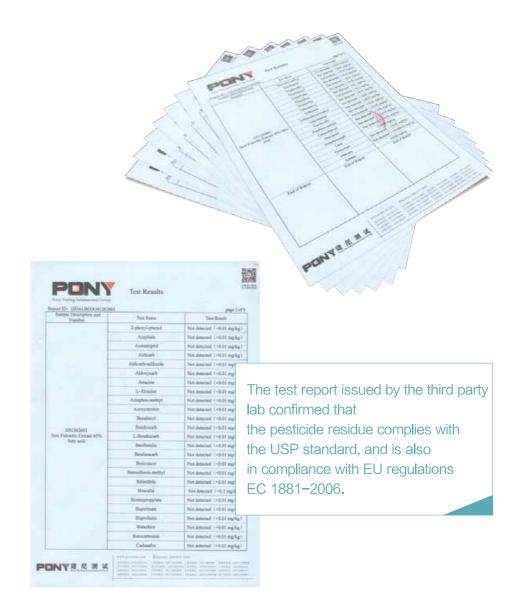
The test report issued by the third party lab confirmed that the concentration of Sterols complies with the USP standard.



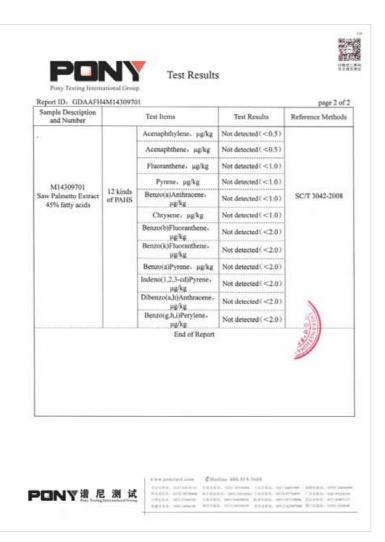




The test report issued by the third party lab confirmed that the heavy metals complies with the USP standard, and is also in compliance with EU regulations EC 1881–2006.







The test report issued by the third party lab confirmed that the PAHS complies with EU regulations EC 1881–2006.

How do you identify the saw palmetto oil instead of palm oil, olive oil or other counterfeit

HERBSINO applied HPTLC & DNA tech to the ID test and solve the problem effectively.





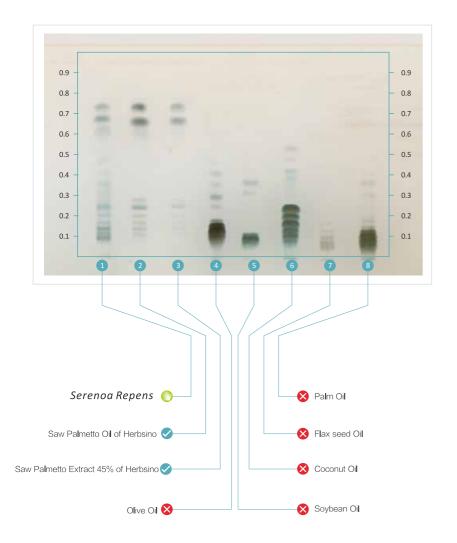
HPTLC test

Sample Prep: 0.1g+20 mL EtOH Sonicate/heat@~50°C~1/2 hr

Stationary Phase: Silica gel 60, F254 RP-18, 10 × 10 cm HPTLC plate [Merck Part#:1.13724.0001, LOT#: Hx53162124]

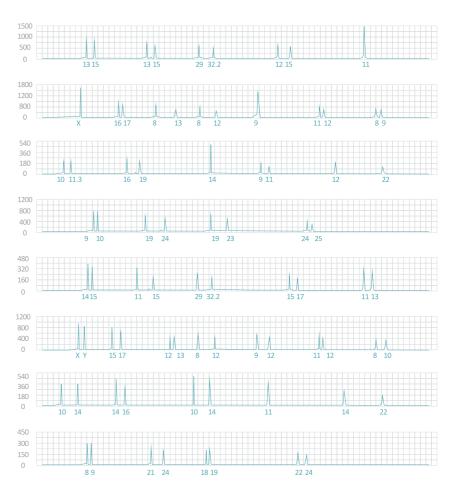
Mobile Phase: Dichloromethane: acetic acid: acetone = 2: 4: 5, V / V / V

Detection: 2.5% Phosphomolybdic acid reagent --- 110°C 5min --- Daylight



DNA tests

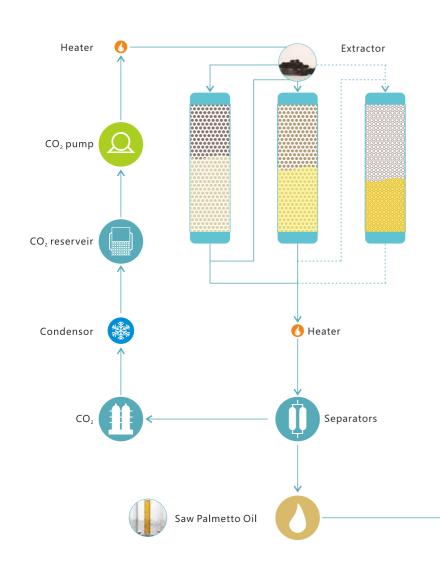
DNA amplification: MicroreaderTM 21 Direct ID System STR, ABI 9700 Biometra, Multiplexing STR system Assay: ABI 3100, Genetic analyzer



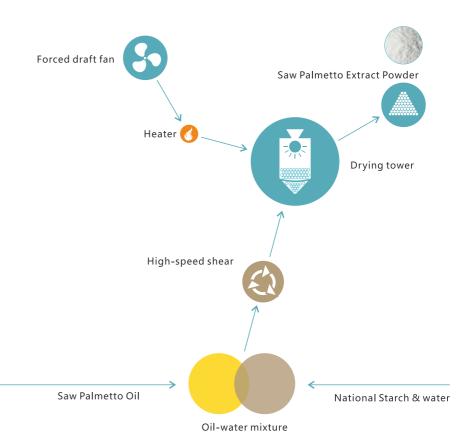
The DNA tests confirmed that the cumulative probability genetic relationship (RCP) of Saw Palmetto Oil and Serenoa Repens is 99.9999%.



Production Process of Saw Palmetto Extract











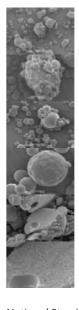


	Saw Palmetto Oil	Saw Palmetto Extract Powder
Color	Brown Red	White
Odor	Characteristic	Odorless
Stability	Easy oxidation in air	Stable
Soluility	Solube in alchol	Water dispersible
Fatty acids	85-95%	10-50%
Application	Soft capsule, Tincture, Shampoo	Capsule, Tablet, Granule

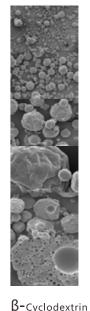




Select the proper oil or powder according to your actual needs.







	National Starch	p Cyclodextiiii
Oil loading	Max. 70%	Max. 30%
Water-Soluility	Water dispersible	Insolube in water
Stability	Stable	3–6 months stability, then started to seep oil
Mobility	Good	Bad
Oil distribution	Filled in the cavity of the starch	Adhered to the surface of the cyclodextrin

Only the Saw Palmetto extract powder which is microencapsulated by national starch can be used to ensure the stability of the preparation.



ISO9000,HACCP, KOSHER, and HALAL quality systems ensure customers to obtain high-quality products and perfect service.







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November 15, 24	- Charles (1975)

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