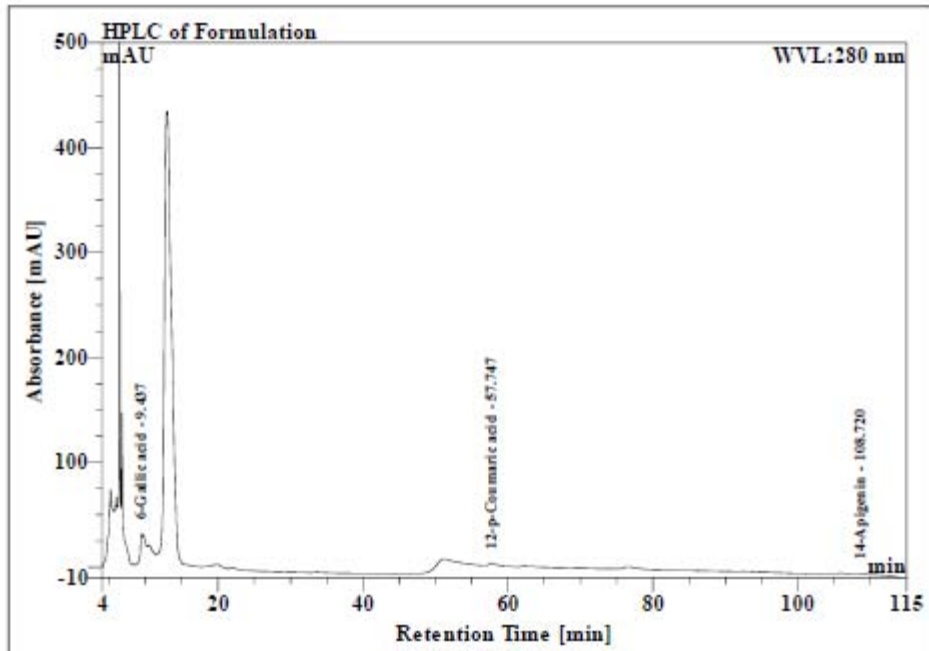


HPLC Chromatogram of Body Revival



Sample Name:	HPLC of Body Revival	Injection Volume:	20.0
Vial Number:	94	Channel:	UV_VIS_1
Sample Type:	unknown	Wavelength:	280.0
Control Program:	FLAVONOID	Bandwidth:	4
Quantif. Method:	FLAVONOID	Dilution Factor:	1.0000
Recording Time:	5/23/2016 11:01	Sample Weight:	1.0000
Run Time (min):	116.00	Sample Amount:	1.0000

HPLC Peaks Body Revival: Quantitative Analysis

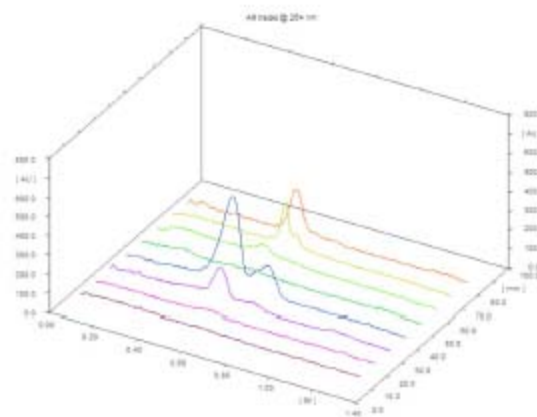
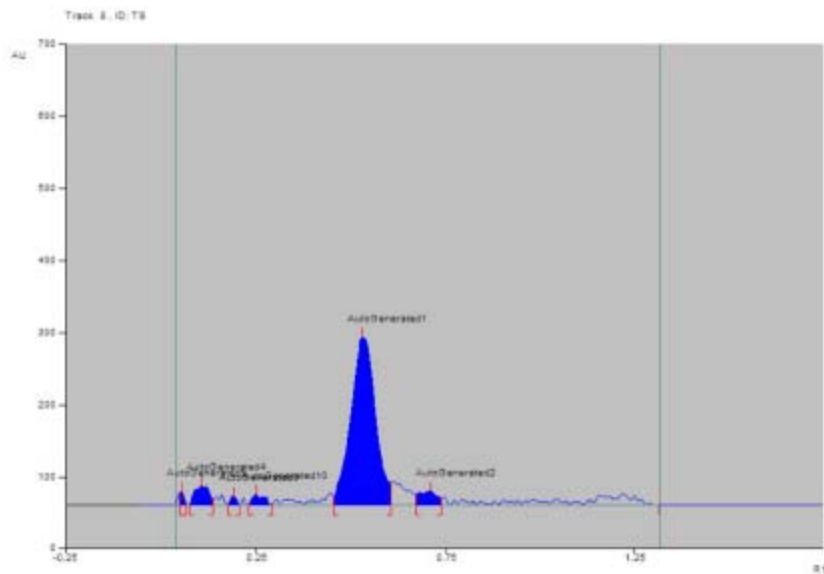
No.	Ret. Time	Peakname	Height	Width	Type	Resol.	Asym.	Plates
	min	min	mAU	min		(EP)	(EP)	(EP)
n.a.	n.a.	Naringenin	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Vanilic acid	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Salicylic acid	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Gentisic acid	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1	5.183	n.a.	35.178	0.352	BMB	n.a.	1.31	1697
2	5.500	n.a.	1.373	n.a.	Rd	n.a.	n.a.	n.a.
3	5.970	n.a.	20.352	0.368	bM	n.a.	n.a.	n.a.
4	6.403	n.a.	936.661	0.130	MB	2.40	1.29	39327
5	6.740	n.a.	97.793	n.a.	Rd	n.a.	n.a.	n.a.
6	9.437	Gallic acid	29.636	0.608	BM	1.68	n.a.	246
7	9.693	n.a.	5.613	n.a.	Rd	n.a.	n.a.	n.a.
8	10.490	n.a.	3.135	n.a.	Rd	n.a.	n.a.	n.a.
9	12.990	n.a.	433.360	1.622	MB	3.46	1.35	794
n.a.	n.a.	Protocatechuic acid	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Aesculin	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
10	19.953	n.a.	3.576	3.123	BMB	6.53	0.77	1320
n.a.	n.a.	Chlorogenic	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Catechin	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	pOH Benz acid	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Caffeic acid	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Syringic acid	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
11	51.157	n.a.	12.139	6.720	BM	n.a.	n.a.	768
12	57.747	p-Coumaric acid	5.088	2.882	MB	n.a.	n.a.	n.a.
n.a.	n.a.	Rutin	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Ellagic acid	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Ferulic acid	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sinapic	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Naringin	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
13	76.473	n.a.	1.930	4.011	BMB	16.06	1.88	9763
n.a.	n.a.	Myrecetin	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Coumarin	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Luteolin	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Quercetin	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
14	108.720	Apigenin	0.645	0.885	BMB	n.a.	1.37	217923
n.a.	n.a.	Kaempferol	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Average:			113.320	2.070		6.02	1.33	33980

* 24 known standard polyphenolics were used as biomarkers.

** Out of 24, only 3 biomarkers named Gallic acid, p-Coumaric acid and Apigenin were identified.

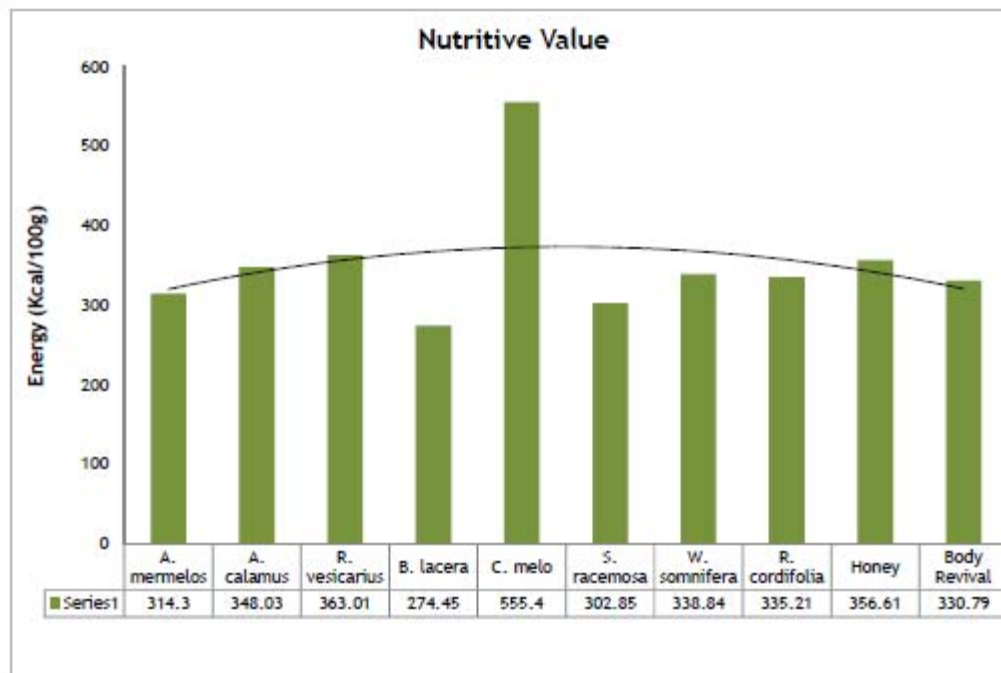
***At 12.99 min (RT) a sharp unidentified peak (433.360 mAU) was noted. Probably it is the peak of sodium benzoate (preservative in Body Revival).

HPTLC Chromatogram of Body Revival



* HPTLC chromatogram showed 6 prominent peaks.

* Peak 6 showed maximum area (84.19%) at Rf 0.54. Probably it is peak of Gallic acid.



Interpretation of Results

- ✓ The proximate composition and nutraceutical role of ingredients present in Body Revival and its formulation by chemical analysis provide unequivocal testimony to the fact.
- ✓ All the ingredients of Body Revival shows rich sources of carbohydrate, protein, fat, fibres and microelements like sodium, potassium and calcium.
- ✓ The nutritive values (energy) of all components of Body Revival establish a good co-relation and match with the final formulation. But, only one ingredient

Cucumis melo (seed) extract has higher nutritive value. It is assumed that seed contains high fat.

- ✓ Chemical analysis reveals Body Revival has maximum carbohydrate and fibres with lesser amount of protein and practically zero fat. Further, Body Revival has low sodium concentration. Hence, it may be helpful for many therapeutic aspects like, cardiac disorders, digestive dysfunctions, neurological problems, renal failures etc.
- ✓ As per Sponsor's information, *Acorus calamus* extract has been prepared according to Ayurvedic *sodhona* (detoxification) process. Investigator has tried to estimate β -asarone from the extract and final formulation (Body Revival) according to HPLC method, but it could not be detected in the supplying sample.
- ✓ Besides that, a remarkable amount of three major biologically active polyphenolics like, Gallic acid, *p*-Coumaric acid and Apigenin are found in Body Revival. All these three components have known therapeutic measures in human.

References

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3. Seal T, Choudhury K. Quantitative HPLC analysis of phenolic acids, flavonoids and ascorbic acid in four different solvent extracts of *Bauhinia purpurea* and *Clerodendrum colebrookianum*, wild edible plants of North-Eastern region in India. *J Chem Pharma Res* 2015, 7(11):427-437