

SUPPORTING INFORMATION

Antioxidant and Anti-inflammatory Activities of Polysaccharides from the Coat of Fermented and Unfermented Sugar Apple (*Annona squamosa* L.) Seed

Christianah Adebimpe Dare^{1,*}  | Oluokun Oluboade Oyedapo²

¹Department of Biochemistry, Osun State University, Nigeria

²Department of Biochemistry and Molecular Biology, Obafemi Awolowo University, Ile-Ife, Nigeria

Corresponding author E-mail: christianah.dare@uniosun.edu.ng; bimpeoasis@yahoo.com

Web of Science Researcher ID: Christianah Adebimpe Dare (R-3148-2016)

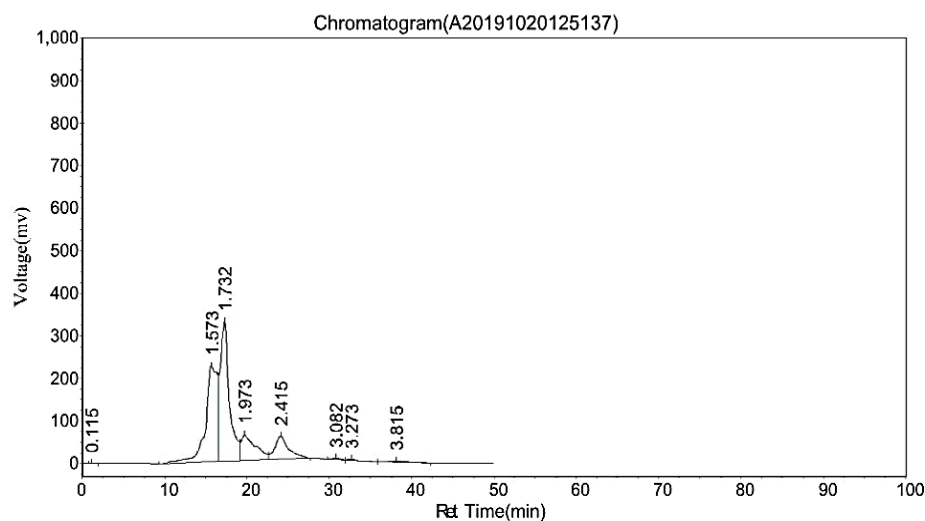
APPENDICES

Appendix 1: Monosaccharides HPLC Chromatogram for FSCP

Instrument: LC
Column Temp.(jæ)£°40

Gradient:

Detector: UV
Wavelength(nm)£°310



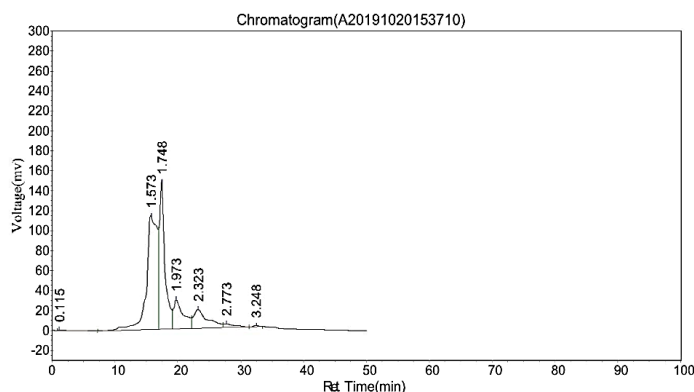
Peak No	Peak Name	Ret Time	Height	Area	Concentration (%)
1	Unidentified	0.115	445.429	1654.400	00.027
2	Rhamnose	1.573	225427.594	2289845.750	36.801
3	Mannose	1.732	325951.594	2506970.750	40.291
4	Fructose	1.973	60302.398	737002.063	11.845
5	Fucose	2.415	53697.094	621000.000	09.981
6	Glucose	3.082	2500.507	21173.156	00.340
7	Arabinose	3.273	2500.562	16428.396	00.264
8	Xylose	3.815	2191.169	28150.199	00.452
Total			673775.346	6222224.714	100.000

Appendix 2: Monosaccharides HPLC Chromatogram for USCP

Instrument: LC
Column Temp.: 65°C

Gradient:

Detector: UV
Wavelength: 310 nm



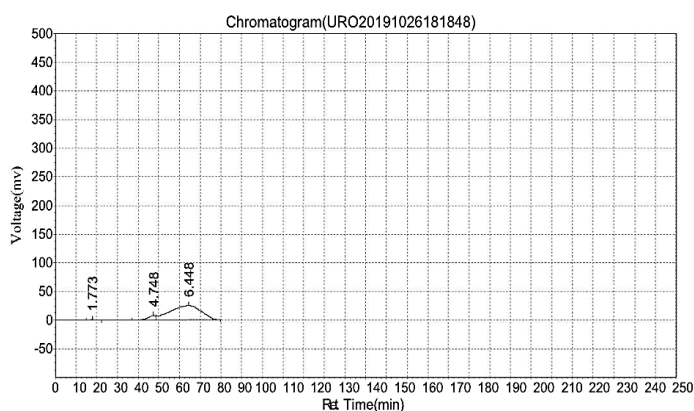
Peak No	Peak Name	Ret Time	Height	Area	Concentration (%)
1	Rhamnose	10.115	385.474	5721.600	00.196
2	Mannose	14.573	113711.125	1340310.625	45.817
3	Fructose	19.748	148884.203	919059.313	31.417
4	Glucose	26.973	28862.158	315020.875	10.769
5	Unidentified	28.323	18727.311	292852.344	10.011
6	Arabinose	29.773	3514.221	46474.246	01.589
7	Xylose	32.248	1015.120	5934.600	00.203
Total			315099.612	2925373.603	100.000

Appendix 3: Uronic Acids HPLC Chromatogram for USCP

Instrument: LC
Column Temp.: 35°C

Gradient:

Detector: UV
Wavelength: 245 nm



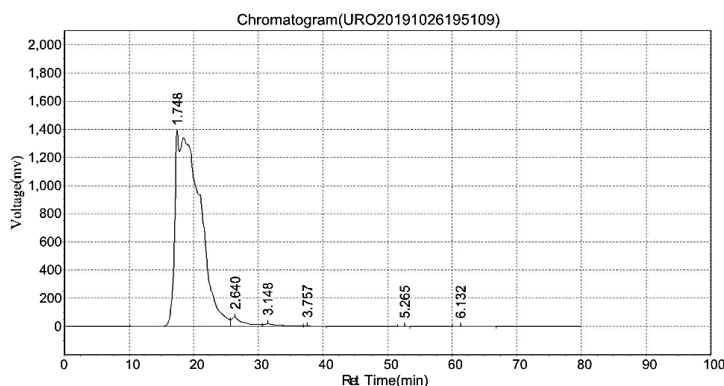
Peak No	Peak Name	Ret Time	Height	Area	Concentration (%)
1	D-mannuronic	1.773	781.557	10407.100	00.369
2	D-galacturonic	4.748	8329.355	205449.688	07.275
3	D-glucuronic	6.448	24846.596	2608055.500	92.356
Total			33957.510	282391.287	100.000

Appendix 4: Uronic Acids HPLC Chromatogram for FSCP

Instrument:LC
Column Temp.(jæ)£°35

Gradient:

Detector:UV
Wavelength(nm)£°245



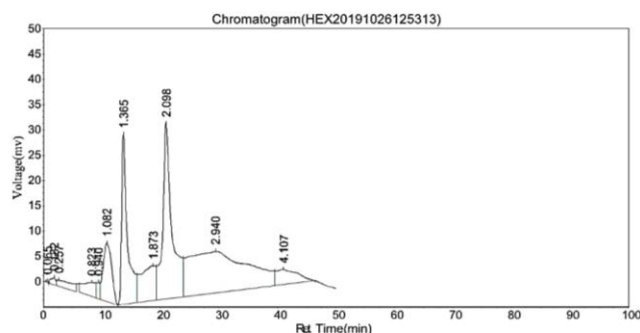
Peak No	Peak Name	Ret Time	Height	Area	Concentration (%)
1	D-mannuronic	1.748	1381587.250	37059924.000	97.004
2	Unidentified	2.640	65173.234	833747.750	02.182
3	D-alluronic	3.148	18921.449	281595.719	00.737
4	D-galacturonic	3.757	3116.249	27401.258	00.072
5	Unidentified	5.265	68.043	425.100	00.001
6	D-glucuronic	6.132	121.037	1515.950	00.004
Total			1468987.263	38204609.777	100.000

Appendix 5: Hexosamines HPLC Chromatogram for USCP

Instrument:LC
Column Temp.(jæ)£°40

Gradient:

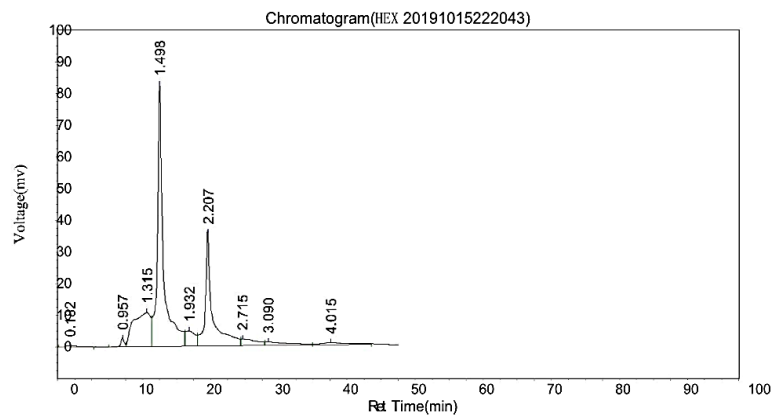
Detector:UV
Wavelength(nm)£°265



Peak No	Peak Name	Ret Time	Height	Area	Concentration (%)
1	Unidentified	0.065	283.571	465.600	00.29
2	Unidentified	0.182	1458.493	8118.241	00.508
3	Galactosamine	0.257	1196.169	26674.523	01.670
4	Fructosamine	0.823	2772.944	41847.660	02.620
5	Unidentified	0.940	3217.662	12524.015	00.784
6	Unidentified	1.082	11426.605	117298.609	07.344
7	Unidentified	1.365	33129.625	231398.844	14.488
8	Unidentified	1.873	6822.099	121149.445	07.585
9	Glucosamine	2.098	34816.637	386439.469	24.195
10	Unidentified	2.940	8250.386	576490.438	36.094
11	Unidentified	4.107	2907.356	74803.492	04.422
Total			106280.548	1597210.336	100

Appendix 6: Hexosamines HPLC Chromatogram for FSCPInstrument: LC
Column Temp. (°C): 40

Gradient:

Detector: UV
Wavelength (nm): 265

Peak No	Peak Name	Ret Time	Height	Area	Concentration (%)
1	Galactosamine	0.182	381.290	3964.700	00.364
2	Unidentified	0.957	2691.186	8888.315	00.817
3	Fructosamine	1.315	10788.665	187414.594	17.227
4	Unidentified	1.498	81077.469	511650.938	47.030
5	Glucosamine	1.932	4832.095	46473.852	04.272
6	Unidentified	2.207	36148.301	262820.250	24.158
7	Unidentified	2.715	2098.073	31394.320	02.886
8	Unidentified	3.090	1044.808	21367.150	01.964
9	Unidentified	4.015	654.952	13958.023	01.282
Total			139716.840	1087932.142	100.000