

8.0 APPENDIXES

8.1 Appendix A: Reducing power assay

(a) Preparation of Potassium ferricyanide 1%

0.1 g of potassium ferricyanide obtained was weighed and dissolved in 10 ml distilled water. Potassium ferricyanide 1% always was prepared as fresh before testing this assay. Furthermore, it was wrapped using aluminium foil.

(b) Preparation of Trichloroacetic acid (TCA) 10%

50 g of Trichloroacetic acid (TCA) 10% obtained was weighed and dissolved in 500 ml distilled water. It was prepared and wrapped using aluminium foil.

(c) Preparation of Ferric chloride solution 0.1% (FeCl_3)

0.01 g of Ferric chloride solution 0.1% obtained was weighed and dissolved in 10 ml distilled water. It was prepared as fresh before testing this assay. It was prepared and wrapped using aluminium foil.

(d) Preparation of 0.2 M phosphate buffer pH 6.6

0.2 M monobasic stock

13.9 g sodium phosphate monobasic (NaHPO_4) was weighed and dissolved in 500 ml distilled water.

0.2 M dibasic stock

26.83 g sodium phosphate dibasic heptahydrate (Na_2HPO_4) was weighed and dissolved in 500 ml distilled water.

0.2 M phosphate buffer

62.5 ml monobasic stock and 37.5 ml dibasic stock were poured into a small bottle. Then monobasic and dibasic stocks were dissolved in 200 ml distilled water. That mixture was adjusted till pH 6.6 using pH meter. The stock was prepared using aluminium foil.

8.2 Appendix B: Assay's Data

Table B1: DPPH assay

Garlic chives + petroleum benzene							
Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.962	0.00	0.919	0.00	0.936	0.00	0.00 ± 0.00
0.01	0.892	7.28	0.896	2.50	0.876	6.41	5.40 ± 2.55
0.05	0.817	15.07	0.810	11.86	0.813	13.14	13.36 ± 1.62
0.15	0.786	18.30	0.770	16.21	0.731	21.90	18.80 ± 2.88
0.50	0.774	19.54	0.727	20.89	0.707	24.47	21.63 ± 2.55
1.00	0.674	29.94	0.642	30.14	0.689	26.39	28.82 ± 2.11
2.00	0.600	37.63	0.595	35.26	0.590	36.97	36.62 ± 1.22

Garlic chives + chloroform							
Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.910	0.00	0.872	0.00	0.899	0.00	0.00 ± 0.00
0.01	0.875	3.85	0.835	4.24	0.853	5.12	4.40 ± 0.65
0.05	0.612	32.75	0.665	23.74	0.623	30.70	29.06 ± 4.72
0.15	0.581	36.15	0.572	34.40	0.561	37.60	36.05 ± 1.60
0.50	0.517	43.19	0.523	40.02	0.503	44.05	42.42 ± 2.12
1.00	0.500	45.05	0.510	41.51	0.502	44.16	43.57 ± 1.84
2.00	0.444	51.21	0.459	47.36	0.402	55.28	51.28 ± 3.96

Garlic chives + methanol							
Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.965	0.00	0.951	0.00	0.967	0.00	0.00 ± 0.00
0.01	0.898	6.94	0.929	2.31	0.887	8.27	5.84 ± 3.13
0.05	0.896	7.15	0.810	14.83	0.867	10.34	10.77 ± 3.86
0.15	0.824	14.61	0.795	16.40	0.791	18.20	16.40 ± 1.80
0.50	0.726	24.77	0.774	18.61	0.779	19.44	20.94 ± 3.34
1.00	0.690	28.50	0.693	27.13	0.688	28.85	28.16 ± 0.91
2.00	0.531	44.97	0.528	44.48	0.569	41.16	43.54 ± 2.07

Garlic chives + water							
Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.880	0.00	0.872	0.00	0.890	0.00	0.00 ± 0.00
0.01	0.794	9.77	0.793	9.06	0.806	9.44	9.42 ± 0.36
0.05	0.734	16.59	0.730	16.28	0.724	18.65	17.25 ± 1.29
0.15	0.625	28.98	0.639	26.72	0.629	29.33	28.38 ± 1.42
0.50	0.500	43.18	0.506	41.97	0.499	43.93	43.02 ± 0.99
1.00	0.396	55.00	0.390	55.28	0.392	55.96	55.39 ± 0.49
2.00	0.283	67.84	0.279	68.00	0.282	68.31	68.10 ± 0.24

Celery + petroleum benzene

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.887	0.00	0.892	0.00	0.901	0.00	0.00 ± 0.00
0.01	0.792	10.71	0.790	11.43	0.788	12.54	11.56 ± 0.92
0.05	0.709	20.07	0.702	21.30	0.716	20.53	20.63 ± 0.62
0.15	0.645	27.28	0.647	27.47	0.650	27.86	27.54 ± 0.30
0.50	0.610	31.23	0.606	32.06	0.603	33.07	32.12 ± 0.92
1.00	0.578	34.84	0.582	34.75	0.571	36.63	35.39 ± 1.06
2.00	0.447	49.61	0.445	50.11	0.453	49.72	49.81 ± 0.26

Celery + chloroform

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.907	0.00	0.910	0.00	0.908	0.00	0.00 ± 0.00
0.01	0.872	3.86	0.883	2.97	0.868	4.41	3.75 ± 0.73
0.05	0.810	10.69	0.805	11.54	0.795	12.44	11.56 ± 0.88
0.15	0.708	21.94	0.699	23.19	0.705	22.36	22.50 ± 0.64
0.50	0.607	33.08	0.603	33.74	0.608	33.04	33.29 ± 0.39
1.00	0.524	42.23	0.518	43.08	0.522	42.51	42.61 ± 0.43
2.00	0.488	46.20	0.480	47.25	0.489	46.15	46.53 ± 0.62

Celery + methanol

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.895	0.00	0.890	0.00	0.899	0.00	0.00 ± 0.00
0.01	0.758	15.31	0.754	15.28	0.764	15.02	15.20 ± 0.16
0.05	0.737	17.65	0.738	17.08	0.727	19.13	17.95 ± 1.06
0.15	0.656	26.70	0.651	26.85	0.659	26.70	26.75 ± 0.09
0.50	0.620	30.73	0.622	30.11	0.628	30.14	30.33 ± 0.35
1.00	0.598	33.18	0.590	33.71	0.587	34.71	33.87 ± 0.78
2.00	0.508	43.24	0.515	42.13	0.512	43.05	42.81 ± 0.59

Celery + water

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.895	0.00	0.890	0.00	0.893	0.00	0.00 ± 0.00
0.01	0.795	11.17	0.800	10.11	0.796	10.86	10.75 ± 0.55
0.05	0.514	42.57	0.523	41.24	0.520	41.77	41.88 ± 0.67
0.15	0.380	57.54	0.382	57.08	0.385	56.89	57.22 ± 0.33
0.50	0.286	68.04	0.287	67.75	0.282	68.42	68.09 ± 0.34
1.00	0.144	83.91	0.136	84.72	0.147	83.54	84.10 ± 0.60
2.00	0.106	88.16	0.108	87.87	0.110	87.68	87.91 ± 0.24

Sweet potato leaves + petroleum benzene

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.975	0.00	0.947	0.00	0.928	0.00	0.00 ± 0.00
0.01	0.930	4.62	0.918	3.06	0.920	0.86	2.85 ± 1.89
0.05	0.922	5.44	0.910	3.91	0.912	1.72	3.69 ± 1.87
0.15	0.857	12.10	0.866	8.55	0.840	9.48	10.04 ± 1.84
0.50	0.715	26.67	0.720	23.97	0.723	22.09	24.24 ± 2.30
1.00	0.690	29.23	0.667	29.57	0.663	28.56	29.12 ± 0.51
2.00	0.585	40.00	0.560	40.87	0.587	36.75	39.21 ± 2.17

Sweet potato leaves + chloroform

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.947	0.00	0.869	0.00	0.883	0.00	0.00 ± 0.00
0.01	0.896	5.39	0.831	4.37	0.842	4.64	4.89 ± 0.53
0.05	0.884	6.65	0.822	5.41	0.830	6.00	6.11 ± 0.62
0.15	0.820	13.41	0.816	6.10	0.823	6.80	8.89 ± 4.03
0.50	0.803	15.21	0.809	6.90	0.806	8.72	10.44 ± 4.37
1.00	0.642	32.21	0.706	18.76	0.696	21.18	24.33 ± 7.17
2.00	0.460	51.43	0.432	50.29	0.451	48.92	50.22 ± 1.26

Sweet potato leaves + METHANOL

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.981	0.00	0.927	0.00	0.904	0.00	0.00 ± 0.00
0.01	0.823	16.11	0.859	7.34	0.813	10.07	11.17 ± 4.49
0.05	0.794	19.06	0.807	12.94	0.800	11.50	14.50 ± 4.01
0.15	0.708	27.83	0.774	16.50	0.714	21.02	21.78 ± 5.70
0.50	0.706	28.03	0.709	24.04	0.689	23.78	25.28 ± 2.38
1.00	0.513	47.71	0.559	39.70	0.541	40.15	42.52 ± 4.50
2.00	0.135	86.24	0.194	79.07	0.143	84.18	83.16 ± 3.69

Sweet potato leaves + water

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.878	0.00	0.879	0.00	0.886	0.00	0.00 ± 0.00
0.01	0.807	8.09	0.821	6.60	0.810	8.58	7.72 ± 1.03
0.05	0.790	10.02	0.781	11.15	0.777	12.30	11.12 ± 1.14
0.15	0.541	38.38	0.537	38.91	0.533	39.84	42.27 ± 0.74
0.50	0.347	60.48	0.354	59.73	0.342	61.40	60.50 ± 0.84
1.00	0.272	69.02	0.267	69.62	0.271	69.41	69.35 ± 0.30
2.00	0.180	79.50	0.184	79.07	0.190	78.56	79.00 ± 0.47

Curry leaves + petroleum benzene

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.859	0.00	0.890	0.00	0.826	0.00	0.00 ± 0.00
0.01	0.586	31.78	0.588	33.93	0.534	35.35	33.69 ± 1.80
0.05	0.483	43.77	0.480	46.07	0.473	42.74	44.19 ± 1.70
0.15	0.396	53.90	0.304	65.84	0.376	54.48	58.07 ± 6.73
0.50	0.118	86.26	0.131	85.28	0.109	86.80	86.11 ± 0.77
1.00	0.116	86.50	0.111	87.53	0.115	86.08	86.70 ± 0.75
2.00	0.092	89.29	0.094	89.44	0.092	88.86	89.20 ± 0.30

Curry leaves + chloroform

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.982	0.00	0.958	0.00	0.950	0.00	0.00 ± 0.00
0.01	0.800	18.53	0.823	14.09	0.827	12.95	15.19 ± 2.95
0.05	0.711	27.60	0.721	24.74	0.700	26.32	26.22 ± 1.43
0.15	0.342	65.17	0.343	64.20	0.300	68.42	65.93 ± 2.21
0.50	0.226	76.99	0.225	76.51	0.253	73.37	75.62 ± 1.97
1.00	0.164	83.30	0.165	82.78	0.177	81.37	82.48 ± 1.00
2.00	0.111	88.70	0.113	88.20	0.104	89.05	88.65 ± 0.43

Curry leaves + methanol

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.900	0.00	0.923	0.00	0.943	0.00	0.00 ± 0.00
0.01	0.868	3.56	0.827	10.40	0.824	12.62	8.86 ± 4.72
0.05	0.668	25.78	0.706	23.51	0.715	24.18	24.49 ± 1.17
0.15	0.621	31.00	0.667	27.74	0.694	26.41	28.38 ± 2.36
0.50	0.589	34.56	0.580	37.16	0.564	40.19	37.30 ± 2.82
1.00	0.555	38.33	0.522	43.45	0.507	46.24	42.67 ± 4.01
2.00	0.537	40.33	0.491	46.80	0.517	45.17	44.10 ± 3.37

Curry leaves + water

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.900	0.00	0.890	0.00	0.895	0.00	0.00 ± 0.00
0.01	0.769	14.56	0.770	13.48	0.789	11.84	13.30 ± 1.37
0.05	0.678	24.67	0.680	23.60	0.672	24.92	24.36 ± 0.70
0.15	0.385	57.22	0.390	56.18	0.388	56.65	56.65 ± 0.52
0.50	0.303	66.33	0.305	65.73	0.310	65.36	65.81 ± 0.49
1.00	0.127	85.89	0.134	84.94	0.129	85.59	85.47 ± 0.49
2.00	0.116	87.11	0.118	86.74	0.114	87.26	87.04 ± 0.27

Winged bean + petroleum benzene

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.902	0.00	0.910	0.00	0.908	0.00	0.00 ± 0.00
0.01	0.890	1.33	0.886	2.64	0.884	2.64	2.20 ± 0.76
0.05	0.626	30.60	0.630	30.77	0.625	31.17	30.85 ± 0.29
0.15	0.575	36.25	0.578	36.48	0.580	36.12	36.28 ± 0.18
0.50	0.523	42.02	0.525	42.31	0.520	42.73	42.35 ± 0.36
1.00	0.490	45.68	0.495	45.60	0.500	44.93	45.40 ± 0.41
2.00	0.437	51.55	0.430	52.75	0.427	52.97	52.42 ± 0.76

Winged bean + chloroform

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.900	0.00	0.910	0.00	0.908	0.00	0.00 ± 0.00
0.01	0.834	7.33	0.833	8.46	0.830	8.59	8.13 ± 0.69
0.05	0.807	10.33	0.800	12.09	0.804	11.45	11.29 ± 0.89
0.15	0.694	22.89	0.695	23.63	0.683	24.78	23.77 ± 0.95
0.50	0.648	28.00	0.641	29.56	0.638	29.74	29.10 ± 0.96
1.00	0.609	32.33	0.607	33.30	0.604	33.48	33.04 ± 0.62
2.00	0.586	34.89	0.580	36.26	0.578	36.34	35.83 ± 0.82

Winged bean + methanol

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.872	0.00	0.851	0.00	0.838	0.00	0.00 ± 0.00
0.01	0.766	12.16	0.726	14.69	0.762	9.07	11.97 ± 2.81
0.05	0.688	21.10	0.693	18.57	0.723	13.72	17.80 ± 3.75
0.15	0.659	24.43	0.629	26.09	0.691	17.54	22.69 ± 4.53
0.50	0.395	54.70	0.400	53.00	0.423	49.52	52.41 ± 2.64
1.00	0.253	70.99	0.239	71.92	0.236	71.84	71.58 ± 0.52
2.00	0.126	85.55	0.139	83.67	0.125	85.08	84.77 ± 0.98

Winged bean + water

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.876	0.00	0.871	0.00	0.874	0.00	0.00 ± 0.00
0.01	0.683	22.03	0.695	20.21	0.690	21.05	21.17 ± 0.91
0.05	0.621	29.11	0.631	27.55	0.620	29.06	28.60 ± 0.89
0.15	0.371	57.65	0.370	57.52	0.362	58.58	57.89 ± 0.58
0.50	0.243	72.26	0.239	72.56	0.244	72.08	72.31 ± 0.24
1.00	0.118	86.53	0.104	88.06	0.114	86.96	87.19 ± 0.79
2.00	0.063	92.81	0.078	91.04	0.066	92.45	92.11 ± 0.94

Sweet leaves + petroleum benzene

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.937	0.00	0.920	0.00	0.930	0.00	0.00 ± 0.00
0.01	0.857	8.54	0.854	7.17	0.850	8.60	8.10 ± 0.81
0.05	0.653	30.31	0.655	28.80	0.658	29.25	29.45 ± 0.78
0.15	0.452	51.76	0.459	50.11	0.466	49.89	50.59 ± 1.02
0.50	0.438	53.26	0.447	51.41	0.440	52.69	52.45 ± 0.95
1.00	0.262	72.04	0.270	70.65	0.268	71.18	71.29 ± 0.70
2.00	0.137	85.38	0.116	87.39	0.129	86.13	86.30 ± 1.02

Sweet leaves + chloroform

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.902	0.00	0.905	0.00	0.900	0.00	0.00 ± 0.00
0.01	0.821	8.98	0.817	9.72	0.823	8.56	9.09 ± 0.59
0.05	0.610	32.37	0.612	32.28	0.615	31.67	32.11 ± 0.38
0.15	0.523	42.02	0.520	42.54	0.518	42.44	42.33 ± 0.28
0.50	0.440	51.22	0.448	50.50	0.452	49.78	50.50 ± 0.72
1.00	0.437	51.55	0.441	51.27	0.429	52.33	51.72 ± 0.55
2.00	0.298	66.96	0.292	67.73	0.290	67.78	67.49 ± 0.46

Sweet leaves + methanol

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.907	0.00	0.899	0.00	0.902	0.00	0.00 ± 0.00
0.01	0.880	2.98	0.881	2.00	0.876	2.88	2.67 ± 0.54
0.05	0.602	33.63	0.601	33.15	0.610	32.37	33.11 ± 0.64
0.15	0.521	42.56	0.527	41.38	0.536	40.58	41.53 ± 1.00
0.50	0.470	48.18	0.460	48.83	0.472	47.67	48.28 ± 0.58
1.00	0.369	59.32	0.378	57.95	0.375	58.43	58.58 ± 0.70
2.00	0.291	67.92	0.297	66.96	0.289	67.96	67.66 ± 0.57

Sweet leaves + water

Concentration of crude extract(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.886	0.00	0.878	0.00	0.891	0.00	0.00 ± 0.00
0.01	0.765	13.66	0.767	12.64	0.765	14.14	13.45 ± 0.77
0.05	0.680	23.25	0.684	22.10	0.683	23.34	22.94 ± 0.69
0.15	0.571	35.55	0.580	33.94	0.581	34.79	34.80 ± 0.81
0.50	0.503	43.23	0.501	42.94	0.500	43.88	43.39 ± 0.48
1.00	0.463	47.74	0.468	46.70	0.460	48.37	47.57 ± 0.84
2.00	0.389	56.09	0.390	55.58	0.382	57.13	56.27 ± 0.79

Table B2: Reducing power assay

Garlic chives + petroleum benzene				
Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.245	0.241	0.243	0.243 ± 0.002
0.5	0.184	0.183	0.182	0.183 ± 0.001
0.25	0.124	0.123	0.120	0.122 ± 0.002
0.125	0.074	0.072	0.070	0.072 ± 0.002
0.0625	0.047	0.048	0.047	0.047 ± 0.001

Garlic chives + chloroform				
Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.224	0.227	0.225	0.225 ± 0.002
0.5	0.201	0.203	0.202	0.202 ± 0.001
0.25	0.110	0.112	0.114	0.112 ± 0.002
0.125	0.088	0.084	0.086	0.086 ± 0.002
0.0625	0.043	0.045	0.048	0.045 ± 0.003

Garlic chives + methanol				
Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.288	0.283	0.285	0.285 ± 0.003
0.5	0.149	0.143	0.146	0.146 ± 0.003
0.25	0.095	0.090	0.092	0.092 ± 0.003
0.125	0.075	0.072	0.070	0.072 ± 0.003
0.0625	0.050	0.047	0.054	0.050 ± 0.004

Garlic chives + water				
Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.230	0.227	0.234	0.230 ± 0.004
0.5	0.170	0.174	0.168	0.171 ± 0.003
0.25	0.095	0.097	0.102	0.098 ± 0.004
0.125	0.047	0.042	0.049	0.046 ± 0.004
0.0625	0.023	0.027	0.025	0.025 ± 0.002

Celery + petroleum benzene

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.292	0.298	0.295	0.295 ± 0.003
0.5	0.187	0.180	0.183	0.183 ± 0.004
0.25	0.097	0.095	0.099	0.097 ± 0.002
0.125	0.062	0.060	0.065	0.062 ± 0.003
0.0625	0.038	0.035	0.033	0.106 ± 0.003

Celery + chloroform

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.290	0.288	0.287	0.288 ± 0.002
0.5	0.212	0.210	0.215	0.212 ± 0.003
0.25	0.147	0.152	0.155	0.151 ± 0.004
0.125	0.089	0.092	0.095	0.092 ± 0.003
0.0625	0.058	0.055	0.059	0.057 ± 0.002

Celery + methanol

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.696	0.697	0.695	0.696 ± 0.001
0.5	0.553	0.552	0.551	0.552 ± 0.001
0.25	0.356	0.352	0.354	0.354 ± 0.002
0.125	0.157	0.152	0.156	0.155 ± 0.003
0.0625	0.098	0.099	0.100	0.099 ± 0.001

Celery + water

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.324	0.320	0.321	0.322 ± 0.002
0.5	0.210	0.212	0.216	0.213 ± 0.003
0.25	0.143	0.140	0.148	0.144 ± 0.004
0.125	0.084	0.087	0.080	0.084 ± 0.004
0.0625	0.054	0.051	0.059	0.055 ± 0.004

Sweet potato leaves + petroleum benzene

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.498	0.488	0.492	0.493 ± 0.005
0.5	0.342	0.344	0.345	0.344 ± 0.002
0.25	0.292	0.291	0.293	0.292 ± 0.001
0.125	0.155	0.151	0.153	0.153 ± 0.002
0.0625	0.117	0.119	0.121	0.119 ± 0.002

Sweet potato leaves + chloroform

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.482	0.480	0.481	0.481 ± 0.001
0.5	0.359	0.353	0.355	0.356 ± 0.003
0.25	0.270	0.272	0.269	0.270 ± 0.002
0.125	0.179	0.180	0.182	0.180 ± 0.002
0.0625	0.119	0.120	0.121	0.120 ± 0.001

Sweet potato leaves + methanol

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.432	0.428	0.435	0.432 ± 0.004
0.5	0.278	0.282	0.285	0.282 ± 0.004
0.25	0.200	0.199	0.197	0.199 ± 0.002
0.125	0.143	0.140	0.147	0.143 ± 0.004
0.0625	0.095	0.090	0.098	0.094 ± 0.004

Sweet potato leaves + water

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.689	0.685	0.684	0.686 ± 0.003
0.5	0.491	0.493	0.490	0.491 ± 0.002
0.25	0.343	0.340	0.345	0.343 ± 0.003
0.125	0.229	0.225	0.227	0.227 ± 0.002
0.0625	0.128	0.125	0.126	0.126 ± 0.002

Curry leaves + petroleum benzene

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	1.202	1.211	1.212	1.208 ± 0.006
0.5	1.003	1.004	1.003	1.003 ± 0.001
0.25	0.637	0.636	0.639	0.637 ± 0.002
0.125	0.468	0.469	0.467	0.468 ± 0.001
0.0625	0.250	0.256	0.257	0.254 ± 0.004

Curry leaves + chloroform

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	1.830	1.832	1.836	1.833 ± 0.003
0.5	1.623	1.621	1.626	1.623 ± 0.003
0.25	1.135	1.137	1.130	1.134 ± 0.004
0.125	0.762	0.763	0.764	0.763 ± 0.001
0.0625	0.415	0.413	0.416	0.415 ± 0.002

Curry leaves + methanol

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.190	0.194	0.191	0.192 ± 0.002
0.5	0.126	0.125	0.124	0.125 ± 0.001
0.25	0.096	0.097	0.098	0.097 ± 0.001
0.125	0.073	0.077	0.079	0.076 ± 0.003
0.0625	0.038	0.039	0.040	0.039 ± 0.001

Curry leaves + water

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.235	0.232	0.237	0.235 ± 0.003
0.5	0.201	0.200	0.205	0.202 ± 0.003
0.25	0.130	0.132	0.135	0.132 ± 0.003
0.125	0.097	0.095	0.092	0.095 ± 0.003
0.0625	0.078	0.074	0.075	0.076 ± 0.002

Winged beans + petroleum benzene

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.273	0.270	0.272	0.272 ± 0.002
0.5	0.213	0.214	0.215	0.214 ± 0.001
0.25	0.186	0.184	0.180	0.183 ± 0.003
0.125	0.102	0.100	0.104	0.102 ± 0.002
0.0625	0.051	0.049	0.053	0.051 ± 0.002

Winged bean + chloroform

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.224	0.221	0.225	0.223 ± 0.002
0.5	0.163	0.160	0.158	0.160 ± 0.003
0.25	0.104	0.107	0.105	0.105 ± 0.002
0.125	0.087	0.084	0.085	0.085 ± 0.002
0.0625	0.067	0.065	0.062	0.065 ± 0.003

Winged bean + methanol

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.482	0.480	0.485	0.482 ± 0.003
0.5	0.301	0.299	0.303	0.301 ± 0.002
0.25	0.242	0.245	0.246	0.244 ± 0.002
0.125	0.189	0.185	0.188	0.187 ± 0.002
0.0625	0.101	0.103	0.106	0.103 ± 0.003

Winged bean + water

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.284	0.283	0.280	0.282 ± 0.002
0.5	0.161	0.164	0.159	0.161 ± 0.003
0.25	0.111	0.118	0.114	0.114 ± 0.004
0.125	0.070	0.074	0.079	0.074 ± 0.005
0.0625	0.046	0.043	0.048	0.046 ± 0.003

Sweet leaves + petroleum benzene

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.657	0.660	0.652	0.656 ± 0.004
0.5	0.548	0.542	0.545	0.545 ± 0.003
0.25	0.327	0.329	0.324	0.327 ± 0.003
0.125	0.271	0.269	0.270	0.270 ± 0.001
0.0625	0.170	0.168	0.172	0.170 ± 0.002

Sweet leaves + chloroform

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.234	0.232	0.231	0.232 ± 0.002
0.5	0.135	0.133	0.137	0.135 ± 0.002
0.25	0.108	0.105	0.102	0.105 ± 0.003
0.125	0.079	0.078	0.075	0.077 ± 0.002
0.0625	0.051	0.054	0.049	0.051 ± 0.003

Sweet leaves + methanol

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	0.443	0.444	0.441	0.443 ± 0.002
0.5	0.310	0.311	0.312	0.311 ± 0.001
0.25	0.240	0.244	0.242	0.242 ± 0.002
0.125	0.181	0.189	0.180	0.183 ± 0.005
0.0625	0.094	0.099	0.100	0.098 ± 0.003

Sweet leaves + water

Concentration of crude extracts(mg/ml)	Replicate 1	Replicate 2	Replicate 3	Average Absorbance Reading
1	1.525	1.529	1.532	1.529 ± 0.004
0.5	1.039	1.034	1.042	1.038 ± 0.004
0.25	0.676	0.674	0.680	0.677 ± 0.003
0.125	0.598	0.595	0.592	0.595 ± 0.003
0.0625	0.336	0.331	0.341	0.336 ± 0.005

Table B3: Metal chelating assay

Garlic chives + petroleum benzene							
Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.986	0.00	0.987	0.00	0.983	0.00	0.00 ± 0.00
0.0625	0.687	30.32	0.685	30.60	0.680	30.82	30.58 ± 0.25
0.125	0.563	42.90	0.560	43.26	0.559	43.13	43.10 ± 0.18
0.25	0.389	60.55	0.380	61.50	0.383	61.04	61.03 ± 0.48
0.5	0.282	71.40	0.285	71.12	0.283	71.21	71.24 ± 0.14
1	0.187	81.03	0.189	80.85	0.183	81.38	81.09 ± 0.27
Garlic chives + chloroform							
Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.976	0.00	0.975	0.00	0.978	0.00	0.00 ± 0.00
0.0625	0.701	28.18	0.700	28.21	0.704	28.02	28.14 ± 0.10
0.125	0.636	34.84	0.641	34.26	0.635	35.07	34.72 ± 0.42
0.25	0.512	47.54	0.511	47.59	0.515	47.34	47.49 ± 0.13
0.5	0.390	60.04	0.392	59.79	0.395	59.61	59.81 ± 0.22
1	0.217	77.77	0.212	78.26	0.214	78.12	78.05 ± 0.25
Garlic chives + methanol							
Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.965	0.00	0.967	0.00	0.964	0.00	0.00 ± 0.00
0.0625	0.789	18.24	0.792	18.10	0.793	17.74	18.03 ± 0.26
0.125	0.669	30.67	0.665	31.23	0.663	31.22	31.04 ± 0.32
0.25	0.441	54.30	0.438	54.71	0.444	53.94	54.32 ± 0.39
0.5	0.358	62.90	0.359	62.87	0.354	63.28	63.02 ± 0.23
1	0.281	70.88	0.283	70.73	0.285	70.44	70.68 ± 0.22
Garlic chives + water							
Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.971	0.00	0.968	0.00	0.973	0.00	0.00 ± 0.00
0.0625	0.835	14.01	0.830	14.26	0.837	13.98	14.08 ± 0.15
0.125	0.759	21.83	0.757	21.80	0.761	21.79	21.81 ± 0.02
0.25	0.689	29.04	0.683	29.44	0.686	29.50	29.33 ± 0.25
0.5	0.555	42.84	0.552	42.98	0.556	42.86	42.89 ± 0.08
1	0.464	52.21	0.462	52.27	0.465	52.21	52.23 ± 0.03

Celery + petroleum benzene

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.978	0.00	0.975	0.00	0.976	0.00	0.00 ± 0.00
0.0625	0.495	49.39	0.500	48.72	0.498	48.98	49.03 ± 0.34
0.125	0.383	60.84	0.380	61.03	0.379	61.17	61.01 ± 0.17
0.25	0.284	70.96	0.281	71.18	0.283	71.00	71.05 ± 0.12
0.5	0.214	78.12	0.216	77.85	0.217	77.77	77.91 ± 0.18
1	0.187	80.88	0.185	81.03	0.184	81.15	81.02 ± 0.14

Celery + chloroform

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.981	0.00	0.979	0.00	0.982	0.00	0.00 ± 0.00
0.0625	0.612	37.61	0.610	37.69	0.611	37.78	37.69 ± 0.09
0.125	0.505	48.52	0.509	48.01	0.506	48.47	48.33 ± 0.28
0.25	0.428	56.37	0.425	56.59	0.429	56.31	56.42 ± 0.15
0.5	0.386	60.65	0.385	60.67	0.383	61.00	60.77 ± 0.20
1	0.262	73.29	0.260	73.44	0.259	73.63	73.45 ± 0.17

Celery + methanol

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.976	0.00	0.974	0.00	0.977	0.00	0.00 ± 0.00
0.0625	0.811	16.91	0.812	16.63	0.808	17.30	16.95 ± 0.34
0.125	0.679	30.43	0.681	30.08	0.684	29.99	30.17 ± 0.23
0.25	0.578	40.78	0.575	40.97	0.571	41.56	41.10 ± 0.41
0.5	0.481	50.72	0.483	50.41	0.479	50.97	50.70 ± 0.28
1	0.392	59.84	0.394	59.55	0.399	59.16	59.52 ± 0.34

Celery + water

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.964	0.00	0.966	0.00	0.965	0.00	0.00 ± 0.00
0.0625	0.498	48.34	0.491	49.17	0.492	49.02	48.84 ± 0.44
0.125	0.387	59.85	0.385	60.14	0.383	60.31	60.10 ± 0.23
0.25	0.301	68.78	0.299	69.05	0.303	68.60	68.81 ± 0.23
0.5	0.262	72.82	0.260	73.08	0.259	73.16	73.02 ± 0.18
1	0.123	87.24	0.122	87.37	0.118	87.77	87.46 ± 0.28

Sweet potato leaves + petroleum benzene

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.987	0.00	0.986	0.00	0.988	0.00	0.00 ± 0.00
0.0625	0.632	35.97	0.630	36.11	0.629	36.34	36.14 ± 0.19
0.125	0.502	49.14	0.506	48.68	0.507	48.68	48.83 ± 0.27
0.25	0.351	64.44	0.349	64.60	0.348	64.78	64.61 ± 0.17
0.5	0.299	69.71	0.297	69.88	0.298	69.84	69.81 ± 0.09
1	0.202	79.53	0.203	79.41	0.205	79.25	79.40 ± 0.14

Sweet potato leaves + chloroform

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.977	0.00	0.982	0.00	0.979	0.00	0.00 ± 0.00
0.0625	0.583	40.33	0.581	40.84	0.579	40.86	40.68 ± 0.30
0.125	0.453	53.63	0.450	54.18	0.456	53.42	53.74 ± 0.39
0.25	0.392	59.88	0.390	60.29	0.389	60.27	60.15 ± 0.23
0.5	0.226	76.87	0.225	77.09	0.223	77.22	77.06 ± 0.18
1	0.110	88.74	0.112	88.59	0.114	88.36	88.56 ± 0.19

Sweet potato leaves + methanol

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.974	0.00	0.971	0.00	0.973	0.00	0.00 ± 0.00
0.0625	0.881	9.55	0.879	9.47	0.883	9.25	9.42 ± 0.16
0.125	0.742	23.82	0.740	23.79	0.739	24.05	23.89 ± 0.14
0.25	0.680	30.18	0.679	30.07	0.677	30.42	30.22 ± 0.18
0.5	0.597	38.71	0.595	38.72	0.599	38.44	38.62 ± 0.16
1	0.529	45.69	0.522	46.24	0.524	46.15	46.03 ± 0.30

Sweet potato leaves + water

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.978	0.00	0.972	0.00	0.975	0.00	0.00 ± 0.00
0.0625	0.825	15.64	0.826	15.02	0.823	15.59	15.42 ± 0.34
0.125	0.697	28.73	0.690	29.01	0.692	29.03	28.92 ± 0.17
0.25	0.614	37.22	0.610	37.24	0.609	37.54	37.33 ± 0.18
0.5	0.497	49.18	0.499	48.66	0.495	49.23	49.02 ± 0.32
1	0.428	56.24	0.430	55.76	0.425	56.41	56.14 ± 0.34

Curry leaves + petroleum benzene

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.986	0.00	0.983	0.00	0.987	0.00	0.00 ± 0.00
0.0625	0.743	24.65	0.740	24.72	0.739	25.13	24.83 ± 0.26
0.125	0.532	46.04	0.530	46.08	0.534	45.90	46.01 ± 0.09
0.25	0.457	53.65	0.452	54.02	0.455	53.90	53.86 ± 0.19
0.5	0.399	59.53	0.393	60.02	0.397	59.78	59.78 ± 0.25
1	0.262	73.43	0.260	73.55	0.258	73.86	73.61 ± 0.22

Curry leaves + chloroform

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.969	0.00	0.972	0.00	0.967	0.00	0.00 ± 0.00
0.0625	0.745	23.12	0.741	23.77	0.746	22.85	23.25 ± 0.47
0.125	0.593	38.80	0.590	39.30	0.597	38.26	38.79 ± 0.52
0.25	0.434	55.21	0.427	56.07	0.431	55.43	55.57 ± 0.45
0.5	0.339	65.02	0.336	65.43	0.332	65.67	65.37 ± 0.33
1	0.208	78.53	0.211	78.29	0.212	78.08	78.30 ± 0.23

Curry leaves + methanol

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.983	0.00	0.981	0.00	0.984	0.00	0.00 ± 0.00
0.0625	0.688	30.01	0.683	30.38	0.685	30.39	30.26 ± 0.22
0.125	0.492	49.95	0.490	50.05	0.488	50.41	50.14 ± 0.24
0.25	0.359	63.48	0.353	64.02	0.342	65.24	64.25 ± 0.90
0.5	0.214	78.23	0.210	78.59	0.216	78.05	78.29 ± 0.27
1	0.110	88.81	0.112	88.58	0.114	88.41	88.60 ± 0.20

Curry leaves + water

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.964	0.00	0.967	0.00	0.965	0.00	0.00 ± 0.00
0.0625	0.870	9.75	0.869	10.13	0.872	9.64	9.84 ± 0.26
0.125	0.728	24.48	0.730	24.51	0.726	24.77	24.59 ± 0.16
0.25	0.508	47.30	0.509	45.80	0.512	46.94	46.68 ± 0.78
0.5	0.409	57.57	0.411	57.50	0.406	57.93	57.67 ± 0.23
1	0.321	66.70	0.318	67.11	0.322	66.63	66.81 ± 0.26

Winged bean + petroleum benzene

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.964	0.00	0.967	0.00	0.963	0.00	0.00 ± 0.00
0.0625	0.707	26.66	0.710	26.58	0.712	26.06	26.43 ± 0.33
0.125	0.567	41.18	0.568	41.26	0.564	41.43	41.29 ± 0.13
0.25	0.411	57.37	0.412	57.39	0.407	57.74	57.50 ± 0.21
0.5	0.347	64.00	0.350	63.81	0.351	63.55	63.79 ± 0.23
1	0.223	76.87	0.222	77.04	0.220	77.15	77.02 ± 0.14

Winged bean + chloroform

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.978	0.00	0.976	0.00	0.979	0.00	0.00 ± 0.00
0.0625	0.445	54.50	0.448	54.10	0.449	54.14	54.25 ± 0.22
0.125	0.380	61.15	0.378	61.27	0.376	61.59	61.34 ± 0.23
0.25	0.321	67.18	0.320	67.21	0.317	67.62	67.34 ± 0.25
0.5	0.272	72.19	0.271	72.23	0.277	71.71	72.04 ± 0.29
1	0.198	79.75	0.196	79.92	0.199	79.67	79.78 ± 0.13

Winged bean + methanol

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.981	0.00	0.979	0.00	0.977	0.00	0.00 ± 0.00
0.0625	0.736	24.97	0.740	24.41	0.739	24.36	24.58 ± 0.34
0.125	0.673	31.40	0.670	31.56	0.669	31.53	31.50 ± 0.09
0.25	0.583	40.57	0.581	40.65	0.579	40.74	40.65 ± 0.09
0.5	0.486	50.46	0.487	50.26	0.489	49.95	50.22 ± 0.26
1	0.402	59.02	0.400	59.14	0.404	58.65	58.94 ± 0.26

Winged bean + water

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.969	0.00	0.972	0.00	0.973	0.00	0.00 ± 0.00
0.0625	0.669	30.96	0.671	30.97	0.672	30.94	30.96 ± 0.02
0.125	0.564	41.80	0.565	41.87	0.562	42.24	41.97 ± 0.24
0.25	0.454	53.15	0.458	52.88	0.459	52.83	52.95 ± 0.17
0.5	0.381	60.68	0.379	61.01	0.382	60.74	60.81 ± 0.18
1	0.323	66.67	0.320	67.08	0.318	67.32	67.02 ± 0.33

Sweet leaves + petroleum benzene

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.972	0.00	0.969	0.00	0.973	0.00	0.00 ± 0.00
0.0625	0.717	26.23	0.712	26.52	0.713	26.72	26.49 ± 0.25
0.125	0.599	38.37	0.596	38.49	0.597	38.64	38.50 ± 0.14
0.25	0.498	48.77	0.500	48.40	0.495	49.13	48.77 ± 0.37
0.5	0.409	57.92	0.410	57.69	0.407	58.17	57.93 ± 0.24
1	0.321	66.98	0.319	67.08	0.323	66.80	66.95 ± 0.14

Sweet leaves + chloroform

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.967	0.00	0.969	0.00	0.966	0.00	0.00 ± 0.00
1	0.706	26.99	0.703	27.45	0.705	27.02	27.15 ± 0.26
0.5	0.546	43.54	0.543	43.96	0.549	44.69	44.06 ± 0.58
0.25	0.427	55.84	0.429	55.73	0.431	55.38	55.65 ± 0.24
0.125	0.346	64.22	0.349	63.98	0.350	63.77	63.99 ± 0.23
0.0625	0.282	70.84	0.281	71.00	0.279	71.12	70.99 ± 0.14

Sweet leaves + methanol

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.971	0.00	0.975	0.00	0.973	0.00	0.00 ± 0.00
0.0625	0.733	24.51	0.736	24.51	0.734	24.56	24.53 ± 0.03
0.125	0.694	28.53	0.690	29.23	0.689	29.19	28.98 ± 0.39
0.25	0.603	37.90	0.599	38.56	0.601	38.23	38.23 ± 0.33
0.5	0.521	46.34	0.520	46.67	0.519	46.66	46.56 ± 0.19
1	0.489	49.64	0.487	50.05	0.483	50.36	50.02 ± 0.36

Sweet leaves + water

Concentration of crude extracts(mg/ml)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
CONTROL	0.967	0.00	0.966	0.00	0.969	0.00	0.00 ± 0.00
0.0625	0.922	4.65	0.920	4.76	0.918	5.26	4.89 ± 0.33
0.125	0.769	20.48	0.767	20.60	0.763	21.26	20.78 ± 0.42
0.25	0.621	35.78	0.620	35.82	0.617	36.33	35.98 ± 0.31
0.5	0.589	39.09	0.588	39.13	0.585	39.63	39.28 ± 0.30
1	0.506	47.67	0.500	48.24	0.499	48.50	48.14 ± 0.42

Table B4: Haemolysate catalytic assay

Garlic chives + petroleum benzene							
Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.975	0.00	0.964	0.00	0.969	0.00	0.00 ± 0.00
50	0.583	40.21	0.580	39.83	0.598	38.29	39.44 ± 1.02
100	0.453	53.54	0.499	48.24	0.483	50.15	50.64 ± 2.68
200	0.357	63.38	0.370	61.62	0.355	63.36	62.79 ± 1.01
Garlic chives + chloroform							
Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.943	0.00	0.951	0.00	0.939	0.00	0.00 ± 0.00
50	0.646	31.50	0.671	29.44	0.663	29.39	30.11 ± 1.20
100	0.413	56.20	0.438	53.94	0.428	54.42	54.85 ± 1.19
200	0.347	63.20	0.322	66.14	0.366	61.02	63.45 ± 2.57
Garlic chives + methanol							
Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.942	0.00	0.952	0.00	0.954	0.00	0.00 ± 0.00
50	0.543	42.36	0.573	39.81	0.604	36.69	39.62 ± 2.84
100	0.479	49.15	0.477	49.89	0.494	48.22	49.09 ± 0.84
200	0.330	64.97	0.340	64.29	0.380	60.17	63.14 ± 2.60
Garlic chives + water							
Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.967	0.00	0.972	0.00	0.969	0.00	0.00 ± 0.00
50	0.739	23.58	0.750	22.84	0.736	24.05	23.49 ± 0.61
100	0.617	36.19	0.664	31.69	0.650	32.92	33.60 ± 2.33
200	0.266	72.49	0.294	69.75	0.307	68.32	70.19 ± 2.12

Celery + petroleum benzene

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.968	0.00	0.967	0.00	0.959	0.00	0.00 \pm 0.00
50	0.815	15.81	0.803	16.96	0.809	15.64	16.14 \pm 0.72
100	0.772	20.25	0.752	22.23	0.787	17.94	20.14 \pm 2.15
200	0.540	44.21	0.555	42.61	0.535	44.21	43.68 \pm 0.92

Celery + chloroform

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.939	0.00	0.945	0.00	0.952	0.00	0.00 \pm 0.00
50	0.536	42.92	0.581	38.52	0.563	40.86	40.77 \pm 2.20
100	0.370	60.60	0.355	62.43	0.390	59.03	60.69 \pm 1.70
200	0.253	73.06	0.278	70.58	0.267	71.95	71.86 \pm 1.24

Celery + methanol

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.948	0.00	0.953	0.00	0.951	0.00	0.00 \pm 0.00
50	0.668	29.54	0.663	30.43	0.645	32.18	30.72 \pm 1.34
100	0.634	33.12	0.594	37.67	0.611	35.75	35.51 \pm 2.28
200	0.340	64.14	0.326	65.79	0.339	64.35	64.76 \pm 0.90

Celery + water

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.969	0.00	0.949	0.00	0.963	0.00	0.00 \pm 0.00
50	0.666	31.27	0.683	28.03	0.675	29.91	29.74 \pm 1.63
100	0.600	38.08	0.595	37.30	0.622	35.41	36.93 \pm 1.37
200	0.217	77.61	0.240	74.71	0.220	77.15	76.49 \pm 1.56

Sweet potato leaves + petroleum benzene

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.958	0.00	0.970	0.00	0.963	0.00	0.00 \pm 0.00
50	0.560	41.54	0.563	41.96	0.541	43.82	42.44 \pm 1.21
100	0.342	64.30	0.331	65.88	0.303	68.54	66.24 \pm 2.14
200	0.175	81.73	0.198	79.59	0.172	82.14	81.15 \pm 1.37

Sweet potato leaves + chloroform

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.949	0.00	0.954	0.00	0.953	0.00	0.00 \pm 0.00
50	0.149	84.30	0.170	82.18	0.139	85.41	83.96 \pm 1.64
100	0.129	86.41	0.133	86.06	0.130	86.36	86.28 \pm 0.19
200	0.092	90.31	0.080	91.61	0.091	90.45	90.79 \pm 0.71

Sweet potato leaves + methanol

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.962	0.00	0.947	0.00	0.956	0.00	0.00 \pm 0.00
50	0.518	46.15	0.490	48.26	0.503	47.38	47.26 \pm 1.06
100	0.219	77.23	0.228	75.92	0.247	74.16	75.77 \pm 1.54
200	0.057	94.07	0.055	94.19	0.059	93.83	94.03 \pm 0.18

Sweet potato leaves + water

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.978	0.00	0.965	0.00	0.973	0.00	0.00 \pm 0.00
50	0.417	57.36	0.398	58.76	0.413	57.55	57.89 \pm 0.76
100	0.338	65.44	0.300	68.91	0.285	70.71	68.35 \pm 2.68
200	0.137	85.99	0.149	84.56	0.145	85.10	85.22 \pm 0.72

Curry leaves + petroleum benzene

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.968	0.00	0.945	0.00	0.933	0.00	0.00 ± 0.00
50	0.477	50.72	0.482	48.99	0.491	47.37	49.03 ± 1.68
100	0.309	68.08	0.329	65.19	0.310	66.77	66.68 ± 1.45
200	0.230	76.24	0.213	77.46	0.229	75.46	76.39 ± 1.01

Curry leaves + chloroform

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.960	0.00	0.967	0.00	0.953	0.00	0.00 ± 0.00
50	0.594	38.13	0.591	38.88	0.588	38.30	38.44 ± 0.39
100	0.283	70.52	0.281	70.94	0.290	69.57	70.34 ± 0.70
200	0.121	87.40	0.115	88.11	0.128	86.57	87.36 ± 0.77

Curry leaves + methanol

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.955	0.00	0.959	0.00	0.966	0.00	0.00 ± 0.00
50	0.833	12.77	0.849	11.47	0.835	13.56	12.60 ± 1.06
100	0.609	36.23	0.592	38.27	0.596	38.30	37.60 ± 1.19
200	0.250	73.82	0.230	76.02	0.250	74.12	74.65 ± 1.19

Curry leaves + water

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.971	0.00	0.965	0.00	0.977	0.00	0.00 ± 0.00
50	0.789	18.74	0.812	15.85	0.794	18.73	17.77 ± 1.67
100	0.577	40.58	0.598	38.03	0.610	37.56	38.72 ± 1.63
200	0.224	76.93	0.267	72.33	0.253	74.10	74.45 ± 2.32

Winged bean + petroleum benzene

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.938	0.00	0.946	0.00	0.933	0.00	0.00 ± 0.00
50	0.587	37.42	0.573	39.43	0.589	36.87	37.91 ± 1.35
100	0.306	67.38	0.311	67.12	0.300	67.85	67.45 ± 0.37
200	0.208	77.83	0.210	77.80	0.210	77.49	77.71 ± 0.19

Winged bean + chloroform

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.958	0.00	0.945	0.00	0.948	0.00	0.00 ± 0.00
50	0.289	69.83	0.250	73.54	0.239	74.79	72.72 ± 2.58
100	0.192	79.96	0.189	80.00	0.171	81.96	80.64 ± 1.14
200	0.072	92.48	0.061	93.54	0.080	91.56	92.53 ± 0.99

Winged bean + methanol

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.971	0.00	0.966	0.00	0.969	0.00	0.00 ± 0.00
50	0.575	40.78	0.580	39.96	0.560	42.21	40.98 ± 1.14
100	0.475	51.08	0.471	51.24	0.470	51.50	51.27 ± 0.21
200	0.140	85.58	0.146	84.89	0.140	85.55	85.34 ± 0.39

Winged bean + water

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.930	0.00	0.936	0.00	0.940	0.00	0.00 ± 0.00
50	0.291	68.71	0.310	66.88	0.285	69.68	68.42 ± 1.42
100	0.198	78.71	0.180	80.77	0.194	79.36	79.69 ± 1.05
200	0.017	98.17	0.020	97.86	0.019	97.98	98.00 ± 0.16

Sweet leaves + petroleum benzene

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.970	0.00	0.979	0.00	0.969	0.00	0.00 ± 0.00
50	0.828	14.64	0.880	10.11	0.830	14.34	13.03 ± 2.53
100	0.453	53.30	0.450	54.03	0.469	51.60	52.98 ± 1.25
200	0.355	63.40	0.368	62.41	0.374	61.40	62.40 ± 1.00

Sweet leaves + chloroform

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.953	0.00	0.959	0.00	0.965	0.00	0.00 ± 0.00
50	0.374	60.76	0.360	62.46	0.378	60.83	61.35 ± 0.96
100	0.359	62.33	0.366	61.84	0.364	62.28	62.15 ± 0.27
200	0.235	75.34	0.219	77.16	0.228	76.37	76.29 ± 0.91

Sweet leaves + methanol

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.956	0.00	0.955	0.00	0.951	0.00	0.00 ± 0.00
50	0.809	15.38	0.855	10.47	0.840	11.67	12.51 ± 2.56
100	0.419	56.17	0.457	52.15	0.452	52.47	53.60 ± 2.23
200	0.198	79.29	0.216	77.38	0.207	78.23	78.30 ± 0.96

Sweet leaves + water

Concentration of crude extract($\mu\text{g/ml}$)	Replicate 1	POI	Replicate 2	POI	Replicate 3	POI	Percentage of inhibition(POI)
STANDARD	0.961	0.00	0.965	0.00	0.970	0.00	0.00 ± 0.00
50	0.691	28.10	0.657	31.92	0.672	30.72	30.25 ± 1.95
100	0.383	60.15	0.413	57.20	0.398	58.97	58.77 ± 1.48
200	0.197	79.50	0.253	73.78	0.230	76.29	76.52 ± 2.87