Annex A: Extraction of Polyphenols

Table 7: Raw data for construction of Folin-Ciocalteau Gallic Acid Standard Calibration Curve

Phenol Concentration (mg/L)	ABS at 765 nm (±0.005A)				
	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5
500.0	1.341	1.359	1.337	1.347	1.346
250.0	0.652	0.644	0.648	0.661	0.657
150.0	0.394	0.393	0.388	0.389	0.39
100.0	0.31	0.312	0.316	0.315	0.306
50.0	0.192	0.188	0.186	0.197	0.195
0.0	‘blank’	‘blank’	‘blank’	‘blank’	‘blank’

Table 8: Table showing absorbance readings of green tea and banana leaves extracts

20 µl of Extract (±0.1µl)	ABS at 765 nm (±0.005A)				
	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5
Green Tea Leaves	1.308	1.302	1.296	1.325	1.329
Banana Leaves	0.612	0.596	0.608	0.597	0.592

Annex B: Antimicrobial Assay (Minimum Bactericidal Concentration)

Table 9: Antimicrobial assay results for 100.0µl of green tea leaves extract combined with 1000µl of 10^5 cfu/ml bacterial broth culture

Concentration of green tea extract (dilution factor)		**2^1**	**2^{-1}**	**2^{-2}**	**2^{-3}**	**2^{-4}**	**2^{-5}**	**2^{-6}**	**2^{-7}**
Number of *E. coli* colonies counted	**Trial**								
	1	0	0	0	0	0	47	60	72
	2	0	0	0	0	0	49	58	70
	3	0	0	0	0	0	51	66	68
	4	0	0	0	0	0	43	62	71
	5	0	0	0	0	0	41	61	69
Number of *M. luteus* colonies counted	**Trial**								
	1	0	0	0	0	0	40	51	66
	2	0	0	0	0	0	42	52	71
	3	0	0	0	0	0	38	55	68
	4	0	0	0	0	0	45	50	62
	5	0	0	0	0	0	34	47	65

Table 10: Antimicrobial assay results for 100.0µl of banana leaves extract combined with 1000µl of 10^5 cfu/ml bacterial broth culture

Concentration of banana leaves extract (dilution factor)		**2^1**	**2^{-1}**	**2^{-2}**	**2^{-3}**	**2^{-4}**	**2^{-5}**	**2^{-6}**	**2^{-7}**
Number of *E. coli* colonies counted	**Trial**								
	1	0	0	0	29	42	55	59	79
	2	0	0	0	26	35	46	65	77
	3	0	0	0	21	31	48	68	83
	4	0	0	0	18	36	51	69	81
	5	0	0	0	16	33	49	62	75
Number of *M. luteus* colonies counted	**Trial**								
	1	0	0	0	0	28	44	53	74
	2	0	0	0	0	29	42	58	70
	3	0	0	0	0	32	46	62	69
	4	0	0	0	0	30	51	61	72
	5	0	0	0	0	31	49	58	65

Table 11: Antimicrobial assay results for 100.0µl of antibiotic ampicillin combined with 1000µl of 10^5 cfu/ml bacterial broth culture

Concentration of antibiotic ampicillin (dilution factor)		**2^1**	**2^{-1}**	**2^{-2}**	**2^{-3}**	**2^{-4}**	**2^{-5}**	**2^{-6}**	**2^{-7}**
Number of *E. coli* colonies counted	**Trial**								
	1	0	0	3	42	45	59	66	83
	2	0	0	1	33	39	56	69	80
	3	0	0	6	27	32	47	72	76
	4	0	0	2	26	40	49	70	78
	5	0	0	0	23	43	61	65	82
Number of *M. luteus* colonies counted	**Trial**								
	1	0	0	0	0	27	44	66	70
	2	0	0	0	0	34	42	61	73
	3	0	0	0	0	32	40	60	77
	4	0	0	0	0	36	51	65	71
	5	0	0	0	0	29	49	58	68

Note: Antimicrobial assay results (raw data) for 100.0µl of ethyl acetate combined with 1000µl of 10^5 cfu/ml bacterial broth culture is not shown as no appreciable antimicrobial activity was observed, and the exact number of bacterial colonies was too dense to be counted.

Annex C: Synergy Studies

Table 12: Antimicrobial assay results for 100.0µl of antibiotic ampicillin combined with 1000µl of 10^5 cfu/ml bacterial broth culture (applied in close association with green tea extract "enhanced" agar)

Concentration of antibiotic ampicillin (dilution factor)		**2^1**	**2^{-1}**	**2^{-2}**	**2^{-3}**	**2^{-4}**	**2^{-5}**	**2^{-6}**	**2^{-7}**
Number of *E. coli* colonies counted	**Trial**								
	1	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0
Number of *M. luteus* colonies counted	**Trial**								
	1	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0

Table 13: Antimicrobial assay results for 100.0µl of antibiotic ampicillin combined with 1000µl of 10^5 cfu/ml bacterial broth culture (applied in close association with banana leaves extract "enhanced" agar)

Concentration of antibiotic ampicillin (dilution factor)		**2^1**	**2^{-1}**	**2^{-2}**	**2^{-3}**	**2^{-4}**	**2^{-5}**	**2^{-6}**	**2^{-7}**
Number of *E. coli* colonies counted	**Trial**								
	1	0	0	0	0	0	33	49	62
	2	0	0	0	0	0	23	51	67
	3	0	0	0	0	0	29	47	58
	4	0	0	0	0	0	35	54	64
	5	0	0	0	0	0	28	42	65
Number of *M. luteus* colonies counted	**Trial**								
	1	0	0	0	0	0	0	36	46
	2	0	0	0	0	0	0	39	49
	3	0	0	0	0	0	0	32	51
	4	0	0	0	0	0	0	42	53
	5	0	0	0	0	0	0	38	44