

Table S1: One way ANOVA of FRAP Antioxidant activity in the four products.

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	142375.17	3.00	47458.39	4745838.97	0
Within Groups	0.08	8.00	0.01		
Total	142375.25	11.00			

Table S2: One way ANOVA of ABTS Antioxidant activity in the four products.

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	97876.50	3.00	32625.50	3262550.08	0
Within Groups	0.08	8.00	0.01		
Total	97876.58	11.00			

Table S3: Comparison of grape juice and FBGGB with enzyme.

	t	Df	p	Significant/not significant
Alcohol	-2.12	4.00	0.10	S
Total Titratable Acidity (TTA)	52.33	4.00	<0.005	N
Antioxidant activity - Ferric Reducing Antioxidant Assay (FRAP)	-347.73	4.00	<0.005	N

Table S4: Comparison of grape juice and FBGGB without enzyme.

	T	Df	p	Significant/not significant
Alcohol	-0.89	4.00	0.42	S
Total Titratable Acidity (TTA)	115.00	4.00	<0.005	N
Antioxidant activity - Ferric Reducing Antioxidant Assay (FRAP)	-3452.00	4.00	<0.005	N

Table S5: Comparison of bitter gourd juice and FBGGB with enzyme.

	T	Df	P	Significant/not significant
Alcohol	-56.50	4.00	<0.005	N
Total Titratable Acidity (TTA)	-89.80	4.00	<0.005	N
Antioxidant activity - Ferric Reducing Antioxidant Assay (FRAP)	-963.43	4.00	<0.005	N
Antidiabetic potential	-121.20	4.00	<0.005	N

Table S6: Comparison of bitter gourd juice and FBGGB without enzyme.

	T	Df	P	Significant/not significant
Alcohol	-109.00	4.00	<0.005	N
Total Titratable Acidity (TTA)	-86.00	4.00	<0.005	N
Antioxidant activity - Ferric Reducing Antioxidant Assay (FRAP)	-3894.00	4.00	<0.005	N
Antidiabetic potential	-94.36	4.00	<0.005	N

Table S7: Alcohol content in the products.

	Mean	Std. Deviation	Minimum	Maximum
Grape Juice	3.67	0.12	3.60	3.80
Bitter Gourd Juice	0.10	0	0.10	0.10
Fermented Bitter Gourd Grape Beverage (FBGGB) with enzyme	3.87	0.12	3.80	4.00
Fermented Bitter Gourd Grape Beverage (FBGGB) without enzyme	3.73	0.06	3.70	3.80

Table S8: ANOVA of Alcohol content.

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	30.13	3.00	10.04	1339.07	0.000
Within Groups	0.06	8.00	0		
Total	30.19	11.00			

Table S9: Tukey HSD test of Alcohol content in the products.

Product (i)	Product (j)	Mean Difference (i-j)	p
Grape Juice	Bitter Gourd Juice	3.57	<0.005
	Fermented Bitter Gourd Grape Beverage (FBGGB) with enzyme	-0.20	0.02
	Fermented Bitter Gourd Grape Beverage (FBGGB) without enzyme	-0.07	0.37
	Grape Juice	-3.57	<0.005
Bitter Gourd Juice	Fermented Bitter Gourd Grape Beverage (FBGGB) with enzyme	-3.77	<0.005
	Fermented Bitter Gourd Grape Beverage (FBGGB) without enzyme	-3.63	<0.005
	Grape Juice	0.20	0.02
Fermented Bitter Gourd Grape Beverage (FBGGB) with enzyme	Bitter Gourd Juice	3.77	<0.005
	Fermented Bitter Gourd Grape Beverage (FBGGB) without enzyme	0.13	0.10
	Grape Juice	0.07	0.37
Fermented Bitter Gourd Grape Beverage (FBGGB) without enzyme	Bitter Gourd Juice	3.63	<0.005
	Fermented Bitter Gourd Grape Beverage (FBGGB) with enzyme	-0.13	0.10