Table 1. Contents of major phenolic acids in sorghum (adapted from Awika and Rooney, 2004)

Phenolic acid	µg/g (dry wt)[a]	Reference
Sorghum Grain		
Ferulic (**8**)	100-500	Hahn and Rooney (1986); Hahn (1984)
Sinapic (**11**)	50-140	Hahn et al. (1983)
p-Cuomaric (**10**)	70-230	Hahn et al. (1983)
Sorghum Bran		
Ferulic (**8**)	1400-2170	Hahn (1984)
Sinapic (**11**)	100-630	Hahn (1984)
p-Cuomaric (**10**)	0-970	Hahn (1984)

[a] Total (free and bound) measured by HPLC

Table 2. Anthocyanin content of sorghum brans (adapted from Awika and Rooney, 2004)

Commodity	Content [a]	Major anthocyanidins	Source
Black sorghum bran	4.0-9.8	Apigeninidin and luteolinidin	b
Brown sorghum bran	1.6-3.9	Apigeninidin and luteolinidin	b
Red sorghum bran	3.3	Apigeninidin	b

(b) Awika (2003)

[a]mg/g, fresh weight

Table 3. Total phenol content (expressed as mg tannic acid equivalent/g) and condensed tannin content (expressed as mg catechin equivalent/g) of sorghum bran fractions on a dry matter basis

Sample	Total phenols (± SD)	Condensed tannins (± SD)
White sorghum bran fractions	6.81[a] (0.58)	8.52[a] (0.65)
Red sorghum bran fractions	33.18 [b] (3.17)	117.98 [b] (4.27)

Values in the same column with different superscripts are significantly different $p \leq 0.05$

SD Standard deviation

Table 4. Statistical analysis of the effect of CPE from bran fractions of condensed tannin and condensed tannin-free sorghum at concentrations of 1, 2, 4 and 20 % on the inhibition (mm) of *B. cereus* ATCC 1178, *E. coli* ATCC 25922 and *L. monocytogenes* ATCC 7644 bacteria

Factors	Degrees. of Freedom	P
Bacteria (*B. cereus* ATCC 1178 & *L. monocytogenes* ATCC 7644)	1	<0.01
Sorghum (condensed tannin & condensed tannin-free)	1	<0.01
Concentration (1, 2, 4 & 20 %)	3	<0.01
Bacteria*Sorghum	1	<0.01
Bacteria*Concentration	3	<0.01
Sorghum*Concentration	3	<0.01
Bacteria*Sorghum*Concentration.	3	0.01

Table 5. Inhibition (mm) of *B. cereus* ATCC 1178, *E. coli* ATCC 25922 and *L. monocytogenes* ATCC 7644 by CPE from bran fractions of condensed tannin and condensed tannin-free sorghum varieties (n=9)

Bacteria	Sorghum CPE	Concentration (%)	Inhibition (mm) (±SD)
B. cereus ATCC 1178	Condensed tannin	1	1.5 (0.2)
		2	3.1 (0.2)
		4	4.4 (0.2)
		20	6.6 (0.2)
	Condensed tannin-free	1	0
		2	0
		4	0
		20	1.7 (0.2)
L. monocytogenes ATCC 7644	Condensed tannin	1	0.5 (0.2)
		2	1.0 (0.2)
		4	1.4 (0.2)
		20	3.6 (0.2)
	Condensed tannin-free	1	0
		2	0
		4	0
		20	1.0 (0.2)
E. coli ATCC 25922	Condensed tannin	1, 2, 4 & 20	No inhibition
	Condensed tannin-free	1, 2, 4 & 20	No inhibition

SD Standard deviation