Table S1. Prevalence of *E. coli* in meat samples sold at the Tamale Metropolis.

Sample	No. of samples examined	^a No. samples positive	^b No. E. coli
Beef	45	39	39
Chevon	45	34	34
Mutton	45	40	40
Local chicken	45	36	36
Guinea fowl	45	40	40
Overall	225	189	189

^aNumber of samples positive for *E. coli*. ^bOne *E. Coli* isolate was selected from each positive sample.

Table S2. A table showing the eBURST (Based Upon Related Sequence Types) analyses of the study sequence types with global curated STs in *Escherichia* PubMLST database.

MLST (Isolate)	Type of clone	Closet global ancestry	Source
		sequence type (ST)	
ST69 (SG6)	Similar ^a	ST69	Animal (Food),
			Human
ST155 (SLC2,	Similar	ST155	Animal (Food), Human,
TLC13, CM4)			Environment
ST297 (TLC1)	Similar	ST297	Human
ST1727 (NC3)	Similar	ST1727	Human
ST44 (AC1)	Single-Locus Variant	ST10, ST752	Animal (Food),
	(SLV) b		Human
ST469 (CC6)	Single-Locus Variant	ST162	Food
	(SLV)		
ST540 (AB1,	Single-Locus Variant	ST4093	Human
TG1)	(SLV)		
ST1141 (NM11)	Single-Locus Variant	ST10, ST744	Animal (Food),
	(SLV)		Human
ST7473 (NB12)	Single-Locus Variant	ST10	Animal (Food),
	(SLV)		Human
ST6646 (CB1)	Satellite ^c	None	-
ST7483 (NB12)	Satellite	None	-

^a Similar: study isolate was similar to a global curated known sequence type.

^b Single-Locus Variant (SLV): study isolate only shared similarity with global curated known sequence types that differed in one allelic gene.

^c Satellite: study isolate as a distantly related and did not shared any similarity with global curated known sequence types.

Table S3. In silico identification and characterization of conserved stress response mechanisms in the *E. coli* strains.

E. COH STRAITS.	T	
Type of Mechanisms	Associated Proteins/Enzymes/Genes	
Osmotic stress (n=14)	T	
a. Osmoregulation (4)	Outer membrane protein A precursor	
	Aquaporin Z	
	Osmotically inducible protein (OsmY)	
	Glycerol uptake facilitator protein	
b. Osmoprotectant ABC transporter (4)	Permease protein (<i>YehY</i>)	
•	Inner membrane protein (YehW)	
	Binding protein (<i>YehZ</i>)	
	ATP-binding subunit (<i>YehX</i>)	
c. Synthesis of osmoregulated periplasmic glucans (3)	Glucans biosynthesis protein C	
	Glucans biosynthesis protein <i>D</i> precursor	
	Glucans biosynthesis protein G precursor	
d. Choline and Betaine Uptake and Betaine Biosynthesis (3)	High-affinity choline uptake protein (BetT)	
	Choline dehydrogenase	
	Betaine aldehyde dehydrogenase	
Oxidative stress (n=38)	, , ,	
a. Protection from Reactive Oxygen Species (3)	Superoxide dismutase [Cu-Zn] precursor	
78-1(-)	Cytochrome <i>c551</i> peroxidase	
	Superoxide dismutase [Fe]	
b. Oxidative stress (9)	Redox-sensitive transcriptional activator (<i>SoxR</i>)	
v. Omaarie stress (v)	Superoxide dismutase [Cu-Zn] precursor	
	Paraquat-inducible protein B	
	Superoxide dismutase [Fe]	
	Ferric uptake regulation protein FUR	
	Superoxide dismutase [Mn]	
	Nitrite-sensitive transcriptional repressor (NsrR)	
	Paraquat-inducible protein A	
	Fumarate and nitrate reduction regulatory protein	
c. Glutathione: Biosynthesis and gamma-glutamyl cycle (3)	Gamma-glutamyltranspeptidase	
	Glutathione synthetase	
	Glutamatecysteine ligase	
d. Glutathione: Non-redox reactions (10)	Glutathione S-transferase	
	Uncharacterized glutathione S-transferase-like protein	
	Lactoylglutathione lyase	
	FIG005121: SAM-dependent methyltransferase	
	Glutathione S-transferase, omega	
	Uncharacterized GST-like protein (yncG)	
	Uncharacterized GST-like protein <i>yghU</i> associated	
	with glutathionylspermidine synthetase/amidase	
	Hydroxyacylglutathione hydrolase	
	Probable glutathione S-transferase, YfcF homolog	
	Probable glutathione S-transferase, <i>YfcG</i> homolog	

		Glutathione S-transferase (EC 2.5.1.18)	
e.	Glutathione: Redox cycle (6)	Glutathione reductase	
	3, 1 (1)	Glutaredoxin-like protein (NrdH), required for	
		reduction of Ribonucleotide reductase class Ib	
		Glutathione peroxidase	
		Glutaredoxin 3 (<i>Grx3</i>)	
		Glutaredoxin 1	
		Glutaredoxin 2	
	Clutered as in a (4)		
f.	Glutaredoxins (4)	Glutaredoxin-like protein (<i>NrdH</i>), required for	
		reduction of Ribonucleotide reductase class Ib	
		Glutaredoxin 3 (<i>Grx</i> 3)	
		Glutaredoxin 1	
		Glutaredoxin 2	
g.	Glutathionylspermidine and Trypanothione (3)	Glutathionylspermidine amidohydrolase	
		Uncharacterized GST-like protein yghU associated	
		with glutathionylspermidine synthetase/amidase	
		Glutathionylspermidine synthase	
Per	iplasmic stress (n=11)		
a.	Periplasmic Acid Stress Response in Enterobacteria (4)	Transcriptional activator (GadE)	
		Membrane transporter (<i>HdeD</i>), H-NS repressed	
		Chaperone (HdeA)	
		Chaperone (<i>HdeB</i>)	
b.	Periplasmic Stress Response (7)	Sigma factor <i>RpoE</i> negative regulatory protein <i>RseA</i>	
ν.	Templatine occess responde (/)	Outer membrane stress sensor protease (<i>DegS</i>)	
		Outer membrane protein H precursor	
		Intramembrane protease (RasP/YluC)	
		Sigma factor <i>RpoE</i> negative regulatory protein <i>RseB</i>	
		precursor	
		Outer membrane stress sensor protease <i>DegQ</i> , serine	
		protease	
		HtrA protease/chaperone protein	
Def	toxification (n=9)	Timil proceduce, comperone process	
a.	Uptake of selenate and selenite (3)	Inner membrane transport protein (<i>YbaT</i>)	
и.	opune of selerate and selerate (6)	Sulfate and thiosulfate import ATP-binding protein	
		(CysA)	
		DedA protein	
b.	Tellurite resistance (Chromosomal	Uncharacterized membrane lipoprotein clustered	
υ.	determinants) (3)	with tellurite resistance proteins (<i>TehA/TehB</i>)	
	determinants) (5)	FIG005189: putative transferase clustered with	
		tellurite resistance proteins (<i>TehA/TehB</i>)	
		1	
	Clustathians demandant with a first farmed 1.1.	Tellurite resistance protein (<i>TehA</i>)	
C.	Glutathione-dependent pathway of formaldehyde detoxification (3)	S-formylglutathione hydrolase	
		S-(hydroxymethyl)glutathione dehydrogenase	
		FrmR: Negative transcriptional regulator of	
		formaldehyde detoxification operon	