

Table S1. Taqman Array Card Primer and Probes.

Pathogen	Citation	Gene Target (25 characters max)	Forward Primer	Forward Primer #2	Reverse Primer	Probe Sequence	Probe Sequence #2
Adenovirus 40-41	1	Fiber Gene	AAC TTTCTCT CTTAATAGA CGCC		AGGGGGCTA GAAAACAAA A	CTGACACGGG CACTCT	
Adenovirus	2	Hexon	GCCACGGTG GGTTTCTA AACTT		GCCCCAGTG GTCTTACATG CACATC	TGCACCAGAC CCGGGCTCAG	
Astrovirus	2	Capsid	CAGTTGCTT GCTGCGTTC A		CTTGCTAGCC ATCACACTTC T	CACAGAAGA GCAACTCCAT CGC	
NorovirusGI	1	ORF 1-2	CGYTGGATG CGNTTYCAT GA		CTTAGACGCC ATCATCATTY AC	TGGACAGGAG ATCGC	
NorovirusGI	2	ORF 1-2	CARGARBCN ATGTTYAGR TGGATGAG		TCGACGCCAT CTTCATTAC A	TGGGAGGGCG ATCGCAATCT	
Rotavirus	2	NSP3	ACCATCTWC ACRTRACCC TCTATGAG		GGTCACATA ACGCCCCTAT AGC	AGTAAAAGC TAACACTGTC AAA	
Sapovirus	2	RdRp	GAYCAGGCT CTCGCYACC TAC	TTTGAACA AGCTGTGG CATGCTAC	CCCTCCATYT CAAACACTA	CYTGTTTCAT AGGTGGTRCA G	CAGCTGG TACATTG GTGGCAC
EAEC	2	aaiC	ATTGTCCTCA GGCATTTCAC		ACGACACCC CTGATAAAC AA	TAGTGCATAC TCATCATTTA AG	
EAEC	2	aatA	CTGGCGAAA GACTGTATC AT		TTTTGCTTCA TAAGCCGAT AGA	TGGTTCATC TATTACAGAC AGC	
EPEC	2	eae	CATTGATCA GGATTTTCT GGTGATA		CTCATGCGG AAATAGCCG TTA	ATACTGGCGA GACTATTTC A	
EPEC	2	bfpA	TGGTGCTTGC GCTTGCT		CGTTGCGCTC ATTACTTCTG	CAGTCTGCGT CTGATTCCAA	
ETEC	2	LT	TTCCCACCG GATCACCAA		CAACCTTGTG GTGCATGATG A	CTGGAGAGA AGAACCCT	
ETEC	2	STh	GCTAAACCA GYAGRGCT TCAAAA		CCCGGTACA RGCAGGATT ACAACA	TGGTCCTGAA AGCATGAA	
ETEC	2	STp	TGAATCACT TGACTCTTCA AAA		GGCAGGATT ACAACAAAG TT	TGAACAACAC ATTTACTGCT	
STEC	2	Stx1	ACTTCTCGA CTGCAAAGA CGTATG		ACAAATTATC CCCTGWGCC ACTATC	CTCTGCAATA GGTACTCCA	

STEC	2	Stx2	CCACATCGG TGCTGTAT TAACC	GGTCAAAAC GCGCCTGAT AG	TGCTGTGGA TATACGAGG
EHEC _E_col i_0157	1	rfbE	TTTCACACTT ATTGGATGG TCTCAA	CGATGAGTTT ATCTGCAAG GTGAT	CTCTCTTCTCT CTGCGGTCCT
Aero monas	1	Aerolysin	TYCGYTACC AGTGGGACA AG	CCRGCAAAC TGGCTCTCG	CAGTTCAGT CCCACCACTT
B_frag ilis	1	EGBF	GGGACAAGG ATTCTACCA GCTTTATA	ATTCCGCAAT CTCATTATC ATT	CAATGGCGAA TCCATCAG
C_diff icile	2	tcdB	GGTATTACC TAATGCTCC AAATAG	TTTGTGCCAT CATTTTCTAA GC	CCTGGTGTCC ATCCTGTTTC
H_Pyl ori	1	ureC	GACACCAGA AAAAGCGGC TA	AGCGCATGT CTTCGGTTAA A	TACTAAAGC GTTTTCTACC
Salmo nella_ enter	1	ttr	CTCACCAGG AGATTACAA CATGG	AGCTCAGAC CAAAAGTGA CCATC	CACCGACGGC GAGACCGACT TT
Shigell a- EIEC	2	ipaH	CCTTTTCCGC GTTCCTTGA	CGGAATCCG GAGGTATTGC	CGCCTTCCG ATACCGTCTC TGCA
V_Ch olerae	1	hlyA	ATCGTCAGT TTGGAGCCA GT	TCGATGCGTT AAACACGAA G	ACCGATGCGA TTGCCCAA
V_par ahaem olytic	1	toxR	GTTTGGCGT GAGCAAGGT TT	AAGCGGGCT TAGGCGTTC	TCAAGCGATT TCTACTCTGC G
Crypt ospori dium	2	18s rRNA	GGGTTGTATT TATTAGATA AAGAACCA	AGGCCAATA CCCTACCGTC T	TGACATATCA TTCAAGTTTCT GAC
C_ho minus	1	LIB13	TCCTTGAAA TGAATATTTG TGACTCG	AAATGTGGT AGTTGCGGTT GAAA	CTTACTTCGTG GCGGCGT
C_par vum	1	LIB13	TCCTTGAAA TGAATATTTG TGACTCG	TTAATGTGGT AGTTGCGGTT GAAC	TATCTCTTCGT AGCGGCGTA
E_hist olytica	2	18s rRNA	ATTGTCGTG GCATCCTAA CTCA	GCGGACGGC TCATTATAAC A	TCATTGAATG AATTGGCCAT TT
Giardi a	2	18s rRNA	GACGGCTCA GGACAACGG TT	TTGCCAGCGG TGTCCG	CCCGCGGCGG TCCCTGCTAG
A_lu mbri coides	1	ITS1	GCCACATAG TAAATTGCA CACAAAT	GCCTTTCTAA CAAGCCCAA CAT	TTGGCGGACA ATTGCATGCG AT
N_am erican us	1	ITS2	CTGTTTGTCG AACGGTACT TGC	ATAACAGCG TGCACATGTT GC	CTGTACTACG CATTGTATAC

S_ster coralis	1	Dispersed repetitive sequence	TCCAGAAAA GTCTTCACTC TCCAG	TGCGTTAGAA TTTAGATATT ATTGTTGCT	TCAGCTCCAG TTGAACAACA GCCTCCAA
T_tric hiura	2	18s rRNA	TTGAAACGA CTTGCTCATC AACTT	CTGATTCTCC GTAAACCGTT GTC	CGATGGTACG CTACGTGCTT ACCATGG
MS2_	2	MS2g1	TGGCACTAC CCCTCTCCGT ATCAC	GTACGGGCG ACCCACGA TGAC	CACATCGATA GATCAAGGTG CCTACAAGC

References:

1. Liu J, Platts-Mills JA, Juma J, Kabir F, Nkeze J, Okoi C, Operario DJ, Uddin J, Ahmed S, Alonso PL, Antonio M, Becker SM, Blackwelder WC, Breiman RF, Faruque AS, Fields B, Gratz J, Haque R, Hossain A, Hossain MJ, Jarju S, Qamar F, Iqbal NT, Kwambana B, Mandomando I, McMurry TL, Ochieng C, Ochieng JB, Ochieng M, Onyango C, Panchalingam S, Kalam A, Aziz F, Qureshi S, Ramamurthy T, Roberts JH, Saha D, Sow SO, Stroup SE, Sur D, Tamboura B, Taniuchi M, Tennant SM, Toema D, Wu Y, Zaidi A, Nataro JP, Kotloff KL, Levine MM, Houpt ER. 2016. Use of quantitative molecular diagnostic methods to identify causes of diarrhoea in children: a reanalysis of the GEMS case-control study. *Lancet* 388:1291-301.
2. Liu J, Gratz J, Amour C, Kibiki G, Becker S, Janaki L, Verweij JJ, Taniuchi M, Sobuz SU, Haque R. 2013. A

laboratory-developed TaqMan Array Card for simultaneous detection of 19 enteropathogens. *Journal of clinical microbiology* 51:472-480.

Inhibition and MS2 Extraction Efficiency of ZymoBIOMICS™ DNA/RNA Extraction

Mini-kit.

Among the food samples that were tested for inhibition, only 1% were positive for inhibition (1/77). One-way ANOVA showed that Ct values of field spiked MS2 virus were not statistically different between 77 food samples plus the 10 water-only controls (p-value= 0.53) and between individual food types (p-value = 0.47) (Table S2). The lack of inhibition and high extraction efficiency in recovery of MS2 indicated that the DNA and RNA extracted from food was of good quality and was not biased by food physical properties.

Table S2. MS2 Ct Values Across Food Type.

Food Type	Number of Samples	Mean CT	Standard Deviation
Water only field control	10	13.0	0.6

Milk	11	13.2	1.3
Porridge	53	12.7	0.9
Tea	3	12.5	0.3
Water	10	13.1	1.6
