

**Table S1: Primer sequences**

VIRUS	PCR	PRIMER SEQUENCE	REFERENCE
Human	1 <sup>st</sup> PCR	Adhex-F1: TICTTTGACATICGIGGIGTICTIGA	Lu & Erdman, 2006
		Adhex-R1: CTGTCIACIGCCTGRTTCCACA	
Adenoviruses	Nested – PCR	Adhex-F2: GGYCCYAGYTTYAARCCCTAYTC	
		Adhex-R2: GGTTCTGTCICCCAGAGARTCIAGCA	
Enteroviruses	RT – PCR	EV1+: CGGTACCTTTGTRCGCCTGTTTTA	Casas <i>et al.</i> , 1997
		EV1-: GAAACACGGACACCCAAAGTAGTCG	
	Nested – PCR	EV2+: CAAGCACTTCTGTTTCCCG	
		EV2-: GGATTAGCCGCATTACAGG	
Rotaviruses	RT – PCR	VP6 – F: GACGGVGCRACTACATGGT	Gray &
		VP6 – R: GTCCAATTCATNCCTGGTG	
	Nested – PCR	VP6 – NF: GCWAGAAATTTGATAACA	Iturriza – Gómara, 2011
		VP6 – NR: GATTCACAAACTGCAGA	
Noroviruses	RT – PCR	Nv36: ATAAAAGTTGGCATGAACA	Moe <i>et al.</i> , 1994;
		Nv35: CTTGTTGGTTTGAGGCCATAT	
	Nested – PCR	Nv82: CACTATGATGCAGATTA	Wang <i>et al.</i> , 1994
		Nv81: ATCTCATCATCACCATA	

**Table S2:** Table with all detailed information about samples and the results obtained for the viruses screened.

SAMPLE CODE <sup>a</sup>	DATE	TIME	SEASON <sup>b</sup>	DUST <sup>c</sup>	ORIGIN <sup>d</sup>	PM 10 <sup>e</sup> ( $\mu\text{g} \cdot \text{m}^{-3}$ )	PM 2.5 <sup>e</sup> ( $\mu\text{g} \cdot \text{m}^{-3}$ )	ENTEROVIRUS <sup>f</sup>	ADENOVIRUS <sup>f</sup>	ROTAVIRUS <sup>f</sup>	NOROVIRUS <sup>f</sup>
A1	01/28/09	13:00 - 15:00	WIN	YES	AFR	27.8	14.5	<b>ENTEROVIRUS B</b> (GenBank Ac.no. KU821663)	NEG	<b>ROTAVIRUS A</b>	NEG
A2	01/29/09	13:00 - 15:00	WIN	YES	AFR	52.2	27.9	<b>ENTEROVIRUS A</b> (GenBank Ac.no. KU821664)	NEG	<b>ROTAVIRUS A</b>	NEG
A3	03/10/09	13:00 - 15:00	WIN	YES	AFR	23.6	17.6	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A4	03/11/09	13:00 - 15:00	WIN	YES	AFR	64.1	31.9	<b>PICORNAVIRIDAE</b> (GenBank Ac.no. KU821665)	NEG	NEG	NEG
A5	03/12/09	13:00 - 15:00	WIN	YES	AFR	59.3	28.4	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A6	03/23/09	13:00 - 15:00	SPR	NO	MAR	12.3	9.4	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A7	03/24/09	13:00 - 15:00	SPR	NO	EUR	14.8	10	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A8	03/25/09	13:00 - 15:00	SPR	NO	EUR	22	14.9	NEG	NEG	NEG	NEG
A9	03/30/09	13:00 - 15:00	SPR	NO	MAR	11.3	3.5	<b>ENTEROVIRUS B</b> (GenBank Ac.no. KU821666)	NEG	<b>ROTAVIRUS</b>	NEG
A10	05/04/09	08:45 - 10:45	SPR	NO	EUR	24.1	12.5	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A11	05/04/09	13:00 - 15:00	SPR	NO	EUR	24.1	12.5	NEG	NEG	NEG	NEG
A12	05/05/09	08:45 - 10:45	SPR	YES	AFR	32.9	16.8	NEG	NEG	<b>ROTAVIRUS</b>	NEG
A13	05/05/09	13:00 - 15:00	SPR	YES	AFR	32.9	16.8	NEG	NEG	NEG	NEG
A14	05/06/09	08:45 - 10:45	SPR	YES	AFR	46.8	23.3	<b>ENTEROVIRUS A</b>	NEG	<b>ROTAVIRUS A</b>	NEG
A15	05/06/09	13:00 - 15:00	SPR	YES	AFR	46.8	23.3	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A16	05/07/09	13:00 - 15:00	SPR	YES	AFR	31	25.3	<b>ENTEROVIRUS A</b> (GenBank Ac.no. KU821667)	NEG	NEG	NEG
A17	05/08/09	13:00 - 15:00	SPR	YES	AFR	23.1	7.8	<b>ENTEROVIRUS</b> (GenBank Ac.no. KU821668)	NEG	<b>ROTAVIRUS A</b>	NEG
A18	05/09/09	13:00 - 15:00	SPR	YES	AFR	18.8	N	NEG	NEG	NEG	NEG
A19	05/11/09	13:00 - 15:00	SPR	NO	MAR	19.4	N	<b>ENTEROVIRUS</b> (GenBank Ac.no. KU821669)	NEG	NEG	NEG
A20	05/12/09	13:00 - 15:00	SPR	NO	MAR	N	3.5	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A21	05/13/09	13:00 - 15:00	SPR	NO	MAR	N	8.1	NEG	NEG	NEG	NEG

A22	05/18/09	13:00 - 15:00	SPR	NO	MAR	N	8	NEG	NEG	NEG	NEG
A23	05/19/09	13:00 - 15:00	SPR	NO	MAR	N	7.4	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A24	05/20/09	13:00 - 15:00	SPR	NO	MAR	N	9.1	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A25	05/21/09	13:00 - 15:00	SPR	NO	MAR	N	11.1	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A26	06/01/09	13:00 - 15:00	SPR	NO	MAR	N	12.8	<b>ENTEROVIRUS B</b>	NEG	NEG	NEG
A27	06/02/09	13:00 - 15:00	SPR	NO	MAR	N	9.5	<b>ENTEROVIRUS B</b> (GenBank Ac.no. KU821670)	NEG	NEG	NEG
A28	11/27/09	13:00 - 15:00	AUT	YES	AFR	N	18.3	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A29	11/28/09	13:00 - 15:00	AUT	YES	AFR	N	22.6	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A30	12/01/09	13:00 - 15:00	AUT	NO	MAR	2	4.6	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A31	12/03/09	13:00 - 15:00	AUT	NO	MAR	7.2	1.2	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A32	12/09/09	13:00 - 15:00	AUT	YES	AFR	15.3	2.5	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A33	12/10/09	13:00 - 15:00	AUT	YES	AFR	34.4	3.9	NEG	NEG	NEG	NEG
A34	12/14/09	13:00 - 15:00	AUT	NO	MAR	9	2.3	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A35	12/15/09	13:00 - 15:00	AUT	NO	MAR	9	2	<b>ENTEROVIRUS B</b> (GenBank Ac.no. KU821671)	NEG	NEG	NEG
A36	12/16/09	13:00 - 15:00	AUT	NO	MAR	8.2	2.5	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A37	01/11/10	13:00 - 15:00	WIN	NO	MAR	N	N	NEG	NEG	NEG	NEG
A38	01/12/10	13:00 - 15:00	WIN	NO	MAR	N	N	NEG	NEG	NEG	NEG
A39	01/13/10	13:00 - 15:00	WIN	NO	MAR	N	N	NEG	NEG	NEG	NEG
A40	01/14/10	13:00 - 15:00	WIN	NO	MAR	N	N	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A41	01/18/10	13:00 - 15:00	WIN	YES	AFR	N	N	NEG	NEG	NEG	NEG
A42	01/19/10	13:00 - 15:00	WIN	YES	AFR	N	N	NEG	NEG	NEG	NEG
A43	01/20/10	13:00 - 15:00	WIN	YES	AFR	N	N	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A44	01/21/10	13:00 - 15:00	WIN	YES	AFR	N	N	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A45	02/22/10	13:00 - 15:00	WIN	NO	MAR	10.8	6.9	NEG	NEG	NEG	NEG
A46	02/23/10	13:00 - 15:00	WIN	NO	MAR	25.5	15.3	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A47	02/24/10	13:00 - 15:00	WIN	NO	MAR	24.7	17.6	NEG	NEG	NEG	NEG

A48	02/25/10	13:00 - 15:00	WIN	NO	MAR	25.9	17.5	NEG	NEG	NEG	NEG
A49	03/15/10	13:00 - 15:00	WIN	NO	EUR	23.1	15	NEG	NEG	NEG	NEG
A50	03/16/10	13:00 - 15:00	WIN	NO	EUR	24.2	16.3	NEG	NEG	NEG	NEG
A51	03/17/10	13:00 - 15:00	WIN	NO	MAR	28.3	20.8	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A52	03/18/10	13:00 - 15:00	WIN	YES	AFR	111.3	51.5	NEG	NEG	NEG	NEG
A53	03/19/10	13:00 - 15:00	WIN	YES	AFR	227.1	106.3	NEG	NEG	NEG	NEG
A54	03/20/10	13:00 - 15:00	WIN	YES	AFR	147.5	47.2	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A55	03/22/10	13:00 - 15:00	SPR	NO	MAR	13.6	7.2	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A56	03/23/10	13:00 - 15:00	SPR	NO	MAR	25.6	9.3	NEG	NEG	NEG	NEG
A57	03/24/10	13:00 - 15:00	SPR	NO	MAR	18.1	7.3	NEG	NEG	NEG	NEG
A58	03/25/10	13:00 - 15:00	SPR	NO	MAR	22.2	9.5	NEG	NEG	NEG	NEG
A59	03/27/10	13:00 - 15:00	SPR	NO	MAR	16.4	10.3	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A60	03/29/10	13:00 - 15:00	SPR	NO	MAR	25.5	8.3	NEG	NEG	NEG	NEG
A61	04/28/10	13:00 - 15:00	SPR	YES	AFR	77.3	17	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A62	04/29/10	13:00 - 15:00	SPR	YES	AFR	57.4	17.5	NEG	NEG	NEG	NEG
A63	06/01/10	13:00 - 15:00	SPR	YES	AFR	N	N	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
A64	06/02/10	13:00 - 15:00	SPR	YES	AFR	N	N	NEG	NEG	NEG	NEG
A65	06/03/10	13:00 - 15:00	SPR	YES	AFR	N	N	NEG	NEG	NEG	NEG
B1	03/06/12	13:30 - 13:50	WIN	YES	AFR	125.5	38.8	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
B2	03/07/12	13:30 - 13:50	WIN	YES	AFR	125.5	38.8	NEG	NEG	NEG	NEG
B3	03/08/12	13:30 - 13:50	WIN	YES	AFR	125.5	38.8	NEG	NEG	NEG	NEG
B4	03/09/12	13:30 - 13:50	WIN	YES	AFR	197.7	44.8	NEG	NEG	NEG	NEG
B5	03/10/12	13:30 - 13:50	WIN	YES	AFR	20.7	8.5	NEG	NEG	NEG	NEG
B6	03/13/12	13:30 - 13:50	WIN	YES	AFR	17.6	7.3	NEG	NEG	NEG	NEG
B7	03/14/12	13:30 - 13:50	WIN	NO	EUR	12.7	5.5	NEG	NEG	NEG	NEG
B8	03/15/12	13:30 - 13:50	WIN	NO	MAR	17.3	7.5	NEG	NEG	NEG	NEG

B9	03/22/12	13:30 - 13:50	SPR	YES	AFR	27.1	9.5	NEG	NEG	NEG	NEG
B10	03/23/12	13:30 - 13:50	SPR	YES	AFR	33.5	11	<b>ENTEROVIRUS C</b>	NEG	<b>ROTAVIRUS</b>	NEG
B11	03/26/12	13:30 - 13:50	SPR	NO	MAR	22.5	8.3	NEG	NEG	NEG	NEG
B12	03/27/12	13:30 - 13:50	SPR	YES	AFR	62.2	22.3	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
B13	03/28/12	13:30 - 13:50	SPR	YES	AFR	67.2	23.8	<b>ENTEROVIRUS C</b> (GenBank Ac.no. KU821672)	NEG	NEG	NEG
B14	03/29/12	13:30 - 13:50	SPR	YES	AFR	26	10	<b>ENTEROVIRUS A</b> (GenBank Ac.no. KU821673)	NEG	NEG	NEG
B15	06/26/12	13:30 - 13:50	SUM	YES	AFR	N	N	<b>ENTEROVIRUS A</b> (GenBank Ac.no. KU821674)	NEG	<b>ROTAVIRUS A</b>	NEG
B16	06/27/12	13:30 - 13:50	SUM	YES	AFR	N	N	<b>ENTEROVIRUS A</b>	NEG	NEG	NEG
B17	11/22/12	13:30 - 13:50	AUT	NO	MAR	10.9	5.4	NEG	NEG	NEG	NEG
B18	11/23/12	13:30 - 13:50	AUT	NO	MAR	20.5	9.2	NEG	NEG	NEG	NEG
B19	11/24/12	13:30 - 13:50	AUT	YES	AFR	21	10.5	NEG	NEG	NEG	NEG
B20	12/03/12	13:30 - 13:50	AUT	NO	EUR	10.8	5.4	NEG	NEG	NEG	NEG
B21	12/10/12	13:30 - 13:50	AUT	NO	MAR	9.2	5.4	NEG	NEG	NEG	NEG
B22	12/11/12	13:30 - 13:50	AUT	YES	AFR	14.1	7.7	NEG	NEG	NEG	NEG
B23	12/12/12	13:30 - 13:50	AUT	YES	AFR	12.6	5.5	NEG	NEG	NEG	NEG
B24	12/13/12	13:30 - 13:50	AUT	NO	MAR	8.8	4.7	NEG	NEG	NEG	NEG
B25	12/17/12	13:30 - 13:50	AUT	NO	MAR	15	7	NEG	NEG	NEG	NEG
B26	12/18/12	13:30 - 13:50	AUT	YES	AFR	24.7	14.5	NEG	NEG	NEG	NEG
B27	12/20/12	13:30 - 13:50	AUT	YES	AFR	19.3	8.5	NEG	NEG	NEG	NEG
B28	01/08/13	13:30 - 13:50	WIN	YES	AFR	17.5	10.6	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
B29	01/10/13	13:30 - 13:50	WIN	YES	AFR	14.3	9.5	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
B30	01/11/13	13:30 - 13:50	WIN	YES	AFR	7.2	4.8	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
B31	01/14/13	13:30 - 13:50	WIN	NO	MAR	10.2	6.7	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
B32	01/15/13	13:30 - 13:50	WIN	NO	EUR	13.8	9	NEG	NEG	NEG	NEG
B33	01/16/13	13:30 - 13:50	WIN	YES	AFR	28.5	16.1	NEG	NEG	<b>ROTAVIRUS A</b>	NEG
B34	01/17/13	13:30 - 13:50	WIN	YES	AFR	15.8	8.3	NEG	NEG	<b>ROTAVIRUS A</b>	NEG

B35	01/18/13	13:30 - 13:50	WIN	NO	MAR	8.9	5.3	NEG	NEG	NEG	NEG	
B36	01/21/13	13:30 - 13:50	WIN	NO	MAR	7.3	4.6	NEG	NEG	NEG	NEG	
B37	01/22/13	13:30 - 13:50	WIN	NO	MAR	6.8	3.9	NEG	NEG	NEG	NEG	
B38	01/23/13	13:30 - 13:50	WIN	NO	MAR	10.5	6	NEG	NEG	<b>ROTAVIRUS A</b>	NEG	
B39	01/24/13	13:30 - 13:50	WIN	NO	MAR	11.1	6.1	NEG	NEG	NEG	NEG	
B40	01/25/13	13:30 - 13:50	WIN	NO	MAR	6	3.5	NEG	NEG	<b>ROTAVIRUS A</b>	NEG	
B41	01/28/13	13:30 - 13:50	WIN	NO	MAR	7.2	4.9	NEG	NEG	NEG	NEG	
B42	01/29/13	13:30 - 13:50	WIN	YES	AFR	15.3	11.1	NEG	NEG	NEG	NEG	
B43	01/30/13	13:30 - 13:50	WIN	YES	AFR	31	15.2	NEG	NEG	<b>ROTAVIRUS A</b>	NEG	
B44	01/31/13	13:30 - 13:50	WIN	YES	AFR	26.8	10.8	NEG	NEG	NEG	NEG	
B45	02/01/13	13:30 - 13:50	WIN	YES	AFR	20.2	11.3	NEG	NEG	NEG	NEG	
B46	02/04/13	13:30 - 13:50	WIN	YES	AFR	107.5	44.2	NEG	NEG	NEG	NEG	
B47	02/05/13	13:30 - 13:50	WIN	YES	AFR	268.1	108	NEG	NEG	NEG	NEG	
B48	02/06/13	13:30 - 13:50	WIN	YES	AFR	22.1	9	NEG	NEG	NEG	NEG	
B49	02/07/13	13:30 - 13:50	WIN	NO	MAR	5.7	3.4	NEG	NEG	NEG	NEG	
B50	02/08/13	13:30 - 13:50	WIN	NO	EUR	4	2.6	NEG	NEG	NEG	NEG	
B51	02/13/13	13:30 - 13:50	WIN	NO	MAR	3	1.5	NEG	NEG	<b>ROTAVIRUS A</b>	NEG	
B52	02/14/13	13:30 - 13:50	WIN	YES	AFR	5.8	3.8	NEG	NEG	NEG	NEG	
B53	02/15/13	13:30 - 13:50	WIN	YES	AFR	9.1	5.2	NEG	NEG	NEG	NEG	
B54	02/18/13	13:30 - 13:50	WIN	NO	MAR	16.8	9	NEG	NEG	<b>ROTAVIRUS A</b>	NEG	
B55	02/19/13	13:30 - 13:50	WIN	NO	MAR	4.6	2.6	NEG	NEG	NEG	NEG	
B56	02/20/13	13:30 - 13:50	WIN	NO	MAR	3.8	2.6	NEG	NEG	NEG	NEG	
B57	02/21/13	13:30 - 13:50	WIN	NO	MAR	4.8	2.9	NEG	NEG	NEG	NEG	
B58	02/22/13	13:30 - 13:50	WIN	NO	MAR	3.1	2	NEG	NEG	NEG	NEG	
B59	02/25/13	13:30 - 13:50	WIN	NO	MAR	6.6	4.8	NEG	NEG	NEG	NEG	
B60	02/26/13	13:30 - 13:50	WIN	NO	EUR	6.8	5	<b>ENTEROVIRUS A</b> (GenBank Ac.no. KU821675)		NEG	NEG	NEG

B61	02/27/13	13:30 - 13:50	WIN	NO	MAR	7.6	5.3	<b>ENTEROVIRUS A</b> (GenBank Ac.no. KU821676)	NEG	NEG	NEG
B62	03/05/13	13:30 - 13:50	WIN	NO	MAR	4.9	3.4	NEG	NEG	NEG	NEG
B63	03/06/13	13:30 - 13:50	WIN	NO	MAR	4.5	3.1	<b>ENTEROVIRUS A</b>	NEG	NEG	NEG
B64	03/07/13	13:30 - 13:50	WIN	NO	MAR	7.6	6	<b>ENTEROVIRUS A</b> (GenBank Ac.no. KU821677)	NEG	NEG	NEG
B65	03/08/13	13:30 - 13:50	WIN	NO	MAR	7	5.3	NEG	NEG	NEG	NEG

<sup>a</sup> Sample code: *A* = Mattson – Garvin samples and *B* = Omni3000 samples. <sup>b</sup> Seasons: *SPR* = Spring, *SUM* = Summer, *AUT* = Autumn, *WIN* = Winter. <sup>c</sup> DUST: *YES* = dust day, *NO* = no dust day. <sup>d</sup> Origin: *AFR* = African, *MAR* = Marine, *EUR* = European. <sup>e</sup> PM levels: *N* = null value. <sup>f</sup> Viruses: *NEG* = Negative result. Positive results are indicated with the species identification. Sequences over 200 bp were submitted to GenBank and accession numbers are attached to the virus ID. The remaining sequences that could not be deposited are available by contacting the author.