

Supplementary Material

Metagenomic sequencing, molecular characterization and Bayesian phylogenetics of imported type 2 Vaccine-Derived Poliovirus, Spain, 2021

Maria Dolores Fernandez-Garcia*, Martin Faye, Francisco Diez-Fuertes, Antonio Moreno-Docón, M. Dolores Chirlaque-López, Ousmane Faye, Maria Cabrerizo

* **Correspondence:** Corresponding Author: mdfernandez@isciii.es

Supplementary Table 1. Enterovirus strains with the highest similarity in the nucleotide sequences in genomic regions of the strain SPA866 using BLASTn.

Genomic region	Type	Strain	% nucleotide identity	Accession number	Genome	Year of sample collection	Country of origin
P1	cVDPV2	IS_001	94.92	MG212490	complete	-	-
	cVDPV2	15763_T2	94.92	MG212459	complete	2001	Russia
	cVDPV2	NIE1018409	94.92	KJ170572	complete	2010	Nigeria
	cVDPV2	18058	94.88	MG212480	complete	2002	Russia
	cVDPV2	14732	94.88	MG212462	complete	2001	Ukraine
P2	cVDPV2	NIE0811456, BAS08-06	83.67%	JX275140	complete	2008	Nigeria
	cVDPV2	CAF-19-RS7-MMP-PGP-005-B6	83.56%	MT432143	complete	2019	Central African Republic
	cVDPV2	CAF-19-RS7-MMP-PGP-005-B3	83.56%	MT432140	complete	2019	Central African Republic
	cVDPV2	NIE0611450, BAS06-01	83.45%	JX275015	complete	2006	Nigeria
	CVA20	NGR_2016	83.30%	MH785183	complete	2016	Nigeria
P3	cVDPV2	NIE1519322	87.70%	KX162714	complete	2015	Nigeria
	cVDPV2	NIE0711199, SOS07-01	87.39%	JX275032	complete	2007	Nigeria
	cVDPV2	NIE0611517	87.35%	KX162700	complete	2006	Nigeria
	cVDPV2	NIE1519325	87.19%	KX162716	complete	2015	Nigeria
	CVA20	NGR_2016	86.89%	MH785183	complete	2016	Nigeria

Supplementary table 2. Virological results of stool samples from the 25 studied contacts of the case.

	Age (yr)	Stool sample 1						Stool sample 2					
		ID sample	Date	RD culture	L20B culture	EV PCR	Result	ID sample	Date	RD culture	L20B culture	EV PCR	Result
1	40	42302	26-Sep	N	N	N	N	42303	27-Sep	N	N	N	N
2	41	42309	26-Sep	N	N	N	N	42312	27-Sep	N	N	N	N
3	8	42314	26-Sep	N	N	P	RV-A	42315	27-Sep	N	N	P	RV-A
4	5	42317	26-Sep	N	N	N	N	42319	27-Sep	N	N	P	RV-A
5	1	42324	26-Sep	N	N	N	N	42326	27-Sep	N	N	P	RV-A
6	32	43147	28-Sep	N	N	N	N	44180	30-Sep	N	N	P	EV-B
7	1	43148	28-Sep	N	N	N	N	44173	30-Sep	N	N	N	N
8	1	43149	25-Sep	N	N	P	RV-A	43150	27-Sep	N	N	P	RV-A
9	3	43151	29-Sep	N	N	N	N	43906	30-Sep	N	N	P	RV-A
10	46	43195	26-Sep	N	N	P	EV-B	43196	27-Sep	N	N	N	N
11	46	43198	25-Sep	N	N	N	N	43199	26-Sep	N	N	N	N
12	40	43200	26-Sep	N	N	P	EV-B	43202	27-Sep	N	N	N	N
13	9	43203	25-Sep	N	N	N	N	43204	26-Sep	N	N	N	N
14	46	43205	25-Sep	N	N	N	N	43206	26-Sep	N	N	P	EV-B
15	64	43207	26-Sep	N	N	N	N	43208	27-Sep	N	N	N	N
16	68	43209	26-Sep	N	N	N	N	43210	27-Sep	N	N	N	N
17	52	43211	27-Sep	N	N	P	EV-B	43212	28-Sep	N	N	N	N
18	65	43213	26-Sep	N	N	N	N	43214	27-Sep	N	N	N	N
19	7	43215	25-Sep	N	N	N	N	43216	27-Sep	N	N	N	N
20	5	43217	25-Sep	N	N	N	N	43218	27-Sep	N	N	P	RV-A
21	56	43219	25-Sep	N	N	N	N	43220	26-Sep	N	N	N	N
22	49	43221	26-Sep	N	N	N	N	43222	27-Sep	N	N	P	EV-A
23	5	43223	25-Sep	N	N	N	N	43224	26-Sep	N	N	N	N
24	23	43395	30-Sep	N	N	N	N	43396	3-Oct	N	N	N	N
25	31	44184	29-Sep	N	N	N	N	44185	30-Sep	N	N	N	N

N, negative; P, positive; EV-B, enterovirus especie B; EV-A, enterovirus especie A; RV-A, rhinovirus especie A.

Supplementary Table 3. Virological results of wastewater samples analyzed.

ID sample	Collection date	RD cell culture	LB20 cell culture	EV PCR detection	Result
A1.15	15-Sep	N	N	P	E-3
A2.15	15-Sep	N	N	P	EV-B
A1.20	20-Sep	N	N	P	EV-A
A2.20	20-Sep	N	N	P	EV-A

N, negative; P, positive; E-3, echovirus 3; EV-B, enterovirus especie B; EV-A, enterovirus especie A.