Table S1. Symptoms of CBSV, UCBSV and EACMV infections in cassava seedlings. When CBSV symptoms were observed and CBSV confirmed by RT-PCR, screening process was terminated and no furhter tests were conducted.

Nr.	CIAT seedlings	CBSV resistant	EACMV resistant	UCBSV resistant
1	1-1	S0	S0	S0
2	1-2	S+	S+	S+
3	1-3	S+++		
4	1-4	S+		
5	1-5	S+	S0	S+
6	1-6	out		
7	1-7	S+++		
8	1-8	out		
9	1-9	S+++		
10	1-10	S+	S+	S-/+
11	1-11	S+		
12	2-1	S0	S+	S-/+
13	2-2	S0	S+	S0
14	2-3	S0	S0	S+
15	2-4	S+	S+	S++
16	2-5	S+		
17	2-6	S+	S+	S+
18	2-7	S0	S+	S0
19	2-8	S0	S+	S+
20	2-9	S0	S0	S+
21	2-10	S++		
22	2-11	S+		
23	2-12	out		
24	2-13	out		
25	3-1	S+		
26	3-2	S+		
27	3-3	S++		
28	3-4	S0	S0	S+
29	3-5	out		
30	3-6	S+	S+	S+
31	3-7	S+	S0	S+
32	3-8	S+	S+	S-/+
33	3-9	S+	S0	S-/+
34	3-10	S0	S0	S-/+
35	3-11	S+		
36	3-12	S+		
37	3-13	S+		
38	3-14	S++		
39	4-1	S++		
40	4-2	S+	S+	S+
41	4-3	S+	S0	S-/+
42	4-4	S0	S0	S+
43	4-5	S+		
44	4-6	S0	S0	S+
45	4-7	S-/S+	S0	S-/S+
46	4-8	S+		

47	4-9	out		
48	4-10	S+		
49	4-11	S0	S0	S-/+
50	4-12	S+		
51	4-13	S+		
52	4-14	out		
53	4-15	out		
54	5-1	S+		
55	5-2	S+	S+	S+
56	5-3	S+		
57	5-4	S+++		
58	5-6	S0	S+	S+
59	5-7	S++		
60	5-8	S0	S+	S+
61	5-9	S+++		
62	5-10	S++		
63	5-11	S+		
64	5-12	S+		
65	6-1	S++		
66	6-2	S0	S+	S0
67	6-3	S+		
68	6-4	S+++		
69	6-5	out		
70	6-6	S++		
71	6-7	S++		
72	6-8	S+		
73	6-9	S++		
74	6-10	S+		
75	6-11	S++		
76	6-12	S0	S+	S0
77	6-13	S+		
78	6-14	S++		
79	7-1	out		
80	7-2	S+		
81	7-3	S0	S0	S++
82	7-4	S++		
83	7-5	S+		S+
84	7-6	S+		
85	7-7	S0	S+	S-/S+
86	7-8	S+	S0	S+
87	7-9	S+		
88	8-1	S0	S0	S0
89	8-2	S0	S+	S++
90	8-3	S0	S0	S+
91	8-4	S0	S0	S+
92	8-5	S++		
93	8-7	S++		
94	8-8	S-/S+	S+	S+
95	8-9	S+		
96	8-10	S0	S0	S0
97	8-11	S+	S+	S+
98	8-12	S++		

99	9-1	S+	S+	S+
100	9-2	S+		
101	9-3	S+	S+	S+
102	9-4	S+		
103	9-5	S+		
104	9-6	S+		
105	9-7	S+		
106	9-8	S+	S0	S+
107	9-9	S-/+	S0	S-/+
108	10-1	S+		
109	10-2	S++		
110	10-3	S+		
111	10-4	S0	S+	S++
112	10-5	S+		
113	10-6	S+	S0	S+
114	10-7	S+		
115	10-8	S0	S+	S+
116	10-9	S-/+	S0	S+
117	10-10	S++		
118	10-11	S+		
119	10-12	S+	S0	S+
120	11-1	S0	S0	S+
121	11-2	S0	S+	S+
122	11-3	S+	S0	S-/+
123	11-4	S++		
124	11-5	S+		
125	11-6	S+		
126	11-7	S+		
127	11-8	S+		
128	11-9	S+		
129	11-10	S+		
130	11-11	S+	S+	
131	11-12	S+		
132	11-13	S++		
133	11-14	S+		
134	12-1	S0	S0	S0
135	12-4	S+	S0	S+
136	12-5	S+	S+	S+
137	13-1	S+	S0	S+
138	13-2	S+++		
139	13-3	S++		
140	13-4	S0	S+	S+
141	13-5	S+++		
142	13-6	S+	S0	S+
143	13-7	S-/+	S+	S+
144	13-8	S+		
145	13-9	S+		
146	13-10	S+		
147	13-11	S+	S+	S+
148	13-12	S0		
149	13-13	S0	S+	S+
150	14-1	out		

151	14-2	S+		
152	14-3	S0	S+	S+
153	15-1	S++		
154	15-2	S+		S+
155	15-3	S+		
156	15-4	S+	S+	S++
157	15-5	S+		
158	15-6	S+	S+	S-/+
159	16-1	S+		
160	16-2	S+		
161	16-3	S0	S0	S+
162	16-4	S+	S0	S-/+
163	16-5	S0		
164	16-6	S+++		
165	16-8	S-/+	S0	S-/+
166	16-9	S+		
167	16-10	S0	S+	S0
168	16-11	out		
169	17-1	S++		
170	17-2	S+	S0	
171	17-3	S+		
172	17-4	S0	S0	S+
173	17-5	S0	S+	S+
174	17-6	S+	S0	S0
175	17-7	S0		
176	17-8	S+		
177	17-9	S++		
178	17-10	S+++		
179	17-11	out		
180	17-12	S0	S+	
181	18-1	S+		
182	18-2	S++		
183	18-3	S+		
184	18-4	S0	S+	S+
185	18-5	S+	S0	S+
186	18-6	S+	S+	S+
187	18-7	S+		
188	18-8	(S0)	S0	S0
189	18-9	out		

This was defined as: S for virus symptoms with S0, no symptoms on leaves; S-/S+, moderate symptoms on roots/no virus on the leaf; S+, mild symptoms on leaves only; S++, severe symptoms on leaves; and S+++, very severe symptoms on leaves.