

Strain	Biotype	185/08	98/09-A	98/09-B	109/10	120/10	69/10	178/09	48/10-10	20/11-21	20/11-29	342/09-466	128/11	123/11-800	45/10-8	328/11-55	322/09	45/10-6	CB/05	450/07	BGF10	INSAVC	03-3684
185/08-IT	P		98.5	97.8	93.4	98.5	99.2	98.5	96.3	96.3	97.1	96.3	97.1	95.6	97.1	96.3	77.5	78.9	94.9	94.9	76.8	78.9	79.7
98/09-A-IT	P	98.5		99.2	93.4	97.1	97.8	97.1	95.6	96.3	97.1	96.3	97.1	95.6	95.6	96.3	77.5	78.9	94.9	94.9	76	78.2	78.2
98/09-B-IT	P	98.3	99.7		92.7	96.3	97.1	96.3	94.9	95.6	96.3	95.6	96.3	94.9	94.9	95.6	76.8	78.2	94.2	94.2	76	77.5	77.5
109/10-IT	P	93.7	93.2	92.9		92	92.7	92.7	91.3	92	92.7	92	92.7	97.1	90.5	92	76.8	78.2	96.3	96.3	76	78.2	78.9
120/10-IT	P	99	97.5	97.3	92.7		97.8	97.1	94.9	94.9	95.6	94.9	95.6	94.2	95.6	94.9	76.8	78.2	93.4	93.4	76	78.2	78.9
69/10-IT	P	99.7	98.3	98	93.4	98.7		97.8	95.6	95.6	96.3	95.6	96.3	94.9	96.3	95.6	76.8	78.2	94.2	94.2	76	78.2	78.9
178/09-EL	P	99	97.5	97.3	93.2	98	98.7		95.6	96.3	97.1	96.3	97.1	94.2	95.6	96.3	76.8	78.2	94.2	93.4	76.8	78.9	78.9
48/10-10-NL	P	97.8	97.1	96.8	92.2	97.3	97.5	96.8		95.6	96.3	95.6	96.3	92	93.4	95.6	75.3	76.8	91.3	91.3	74.6	78.2	78.2
20/11-21-NL	P	97.8	97.3	97.1	92.5	97.1	97.5	97.3	96.3		99.2	100	99.2	93.4	93.4	100	74.6	76	92.7	92.7	75.3	76.8	77.5
20/11-29-BE	P	97.8	97.8	97.5	92.5	97.1	97.5	97.3	96.3	99.5		99.2	100	94.2	94.2	99.2	75.3	76.8	93.4	93.4	76	77.5	78.2
342/09-466-HU	P	97.8	97.3	97.1	92.5	97.1	97.5	97.3	96.3	100	99.5		99.2	93.4	93.4	100	74.6	76	92.7	92.7	75.3	76.8	77.5
128/11-HU	P	98	97.5	97.3	92.7	97.3	97.8	97.5	96.6	99.7	99.7	99.7		94.2	94.2	99.2	75.3	76.8	93.4	93.4	76	77.5	78.2
123/11-800-HU	P	95.8	95.8	95.6	95.1	95.1	95.6	94.9	94.4	95.4	95.4	95.4	95.6		92.7	93.4	76.8	78.2	99.2	99.2	76.8	77.5	78.2
45/10-8-FR	P	97.8	97.3	97.1	92	96.8	97.5	96.8	96.1	96.1	96.1	96.1	96.3	94.6		93.4	75.3	76.8	92	92	73.9	76.8	76.8
328/11-55-FR	P	97.8	97.3	97.1	92.5	97.1	97.5	97.3	96.3	100	99.5	100	99.7	95.4	96.1		74.6	76	92.7	92.7	75.3	76.8	77.5
322/09-FR	P	78.7	79.2	78.9	79.4	78.5	78.5	78.2	77.7	77.7	77.7	77.7	78	79.2	78	77.7		94.1	77.5	76.8	83.2	87.5	85.4
45/10-6-FR	P	79.2	79.7	79.4	79.4	78.9	78.9	78.5	78.2	78	78	78	78.2	79.9	78.5	78	97.3		78.2	77.5	86.8	90.5	85.4
CB/05-IT	P	96.8	97.3	97.1	94.4	95.8	96.6	96.3	95.1	95.6	96.1	95.6	95.8	97.1	95.6	95.6	78.2	78.5		98.5	76.8	77.5	77.5
450/07-IT	P	97.1	97.5	97.3	94.6	96.1	96.8	96.1	95.4	95.8	96.3	95.8	96.1	97.3	95.8	95.8	78	78.5	99.2		76	76.8	77.5
BGF10-ES	E	76.5	76.3	76	77	75.8	76.3	76	75.8	75.6	75.6	75.6	75.8	76.3	75.6	75.6	85.6	86.8	75.8	76		87.5	81
INSAVC-US	E	78.7	78.5	78.2	79.2	78.5	78.5	78.9	79.4	77.5	77.5	77.5	77.7	78.7	77.7	77.5	88.8	89.5	78.2	78	88.8		86.8
03-3684-IR	E	79.4	78.9	78.7	79.7	78.7	79.2	78.7	78.2	78.2	78.2	78.2	78.5	79.2	78.2	78.2	90	90.2	78.5	78.7	85.6	90	

IT, Italy; EL, Greece; NL, the Netherlands; BE, Belgium; HU, Hungary; FR, France; ES, Spain; US, United States; IR, Ireland; P, pantropic; E, enteric.