

TABLE 2. Rickettsial growth and L929 cell growth in untreated and IFN- $\gamma$ -treated cultures of standard L929 cells infected with rickettsiae isolated from persistently infected, IFN- $\gamma$ -treated L929 cells

Rickettsial strain	Cell treatment after infection	Interval (days)	No. of expts	Growth <sup>a</sup> (no. of doublings/day, mean $\pm$ SEM)		Rickettsial infection at end of interval <sup>c</sup>	
				L929 cells	Rickettsiae <sup>b</sup>	%R (mean $\pm$ SEM)	RI (mean $\pm$ SEM)
Madrid E	NA <sup>d</sup>	0	6			60 $\pm$ 8	3.6 $\pm$ 0.4
	None (control)	0-3	6	0.9 $\pm$ 0.1	2.1 $\pm$ 0.1	78 $\pm$ 9	35 $\pm$ 3
	IFN- $\gamma$	0-3	6	0.5 $\pm$ 0.1**	0.8 $\pm$ 0.1**	33 $\pm$ 5	10 $\pm$ 1
	IFN- $\gamma$	3-7	6	0.6 $\pm$ 0.0	ND <sup>e</sup>	14 $\pm$ 2	8 $\pm$ 1
427	NA	0	4			38 $\pm$ 7	2.3 $\pm$ 0.3
	None (control)	0-3	4	0.7 $\pm$ 0.1	2.5 $\pm$ 0.2	95 $\pm$ 3	39 $\pm$ 8
	IFN- $\gamma$	0-3	4	0.4 $\pm$ 0.1*	2.0 $\pm$ 0.1***	91 $\pm$ 4	25 $\pm$ 3
	IFN- $\gamma$	3-7	4	0.1 $\pm$ 0.1††	ND	98 $\pm$ 1	51 $\pm$ 6
427-19	NA	0	2			49 $\pm$ 4	2.4 $\pm$ 0.2
	None (control)	0-3	2	0.6 $\pm$ 0.0	2.5 $\pm$ 0.1	99 $\pm$ 1	64 $\pm$ 3
	IFN- $\gamma$	0-3	2	0.3 $\pm$ 0.1	1.9 $\pm$ 0.1***	98 $\pm$ 0	38 $\pm$ 1
	IFN- $\gamma$	3-7	2	0.2 $\pm$ 0.1††	ND	87 $\pm$ 7	32 $\pm$ 5
87	NA	0	4			76 $\pm$ 3	3.9 $\pm$ 0.7
	None (control)	0-3	4	0.7 $\pm$ 0.1	2.3 $\pm$ 0.1	100 $\pm$ 0	74 $\pm$ 3
	IFN- $\gamma$	0-3	4	0.3 $\pm$ 0.1**	1.3 $\pm$ 0.2**‡	93 $\pm$ 2	20 $\pm$ 3
	IFN- $\gamma$	3-7	4	0.3 $\pm$ 0.1††	ND	93 $\pm$ 5	44 $\pm$ 7
87-17	NA	0	2			67 $\pm$ 1	3.4 $\pm$ 0.1
	None (control)	0-3	2	0.6 $\pm$ 0.0	2.3 $\pm$ 0.0	100 $\pm$ 0	81 $\pm$ 1
	IFN- $\gamma$	0-3	2	0.5 $\pm$ 0.0**	1.8 $\pm$ 0.1***	99 $\pm$ 1	45 $\pm$ 5
	IFN- $\gamma$	3-7	2	0.3 $\pm$ 0.1††	ND	98 $\pm$ 1	53 $\pm$ 9

<sup>a</sup> For the time interval beginning on day 0 and ending on day 3, a significant difference between IFN- $\gamma$ -treated cultures and untreated control cultures infected with the same rickettsial strain is indicated by \*\* ( $P \leq 0.05$ ) or \* ( $0.05 < P \leq 0.1$ ) and a significant difference between IFN- $\gamma$ -treated cultures infected with *R. prowazekii* Madrid E and IFN- $\gamma$ -treated cultures infected with rickettsiae isolated from persistently infected, IFN- $\gamma$ -treated L929 cells is indicated by †† ( $P \leq 0.005$ ) or ‡ ( $0.05 < P \leq 0.1$ ). For the time interval beginning on day 3 and ending on day 7, a significant difference between IFN- $\gamma$ -treated cultures infected with *R. prowazekii* Madrid E and IFN- $\gamma$ -treated cultures infected with rickettsiae isolated from persistently infected, IFN- $\gamma$ -treated L929 cells is indicated by †† ( $P \leq 0.05$ ).

<sup>b</sup> In each instance, the number of rickettsial doublings that occurred between days 0 and 3 was calculated from the number of rickettsiae present in the L929 cells that were planted on day 0 and the number of rickettsiae per culture on day 3. The number of rickettsiae per culture on day 3 was calculated by adding the number of rickettsiae in the detached cells to the number of rickettsiae in the attached cells.

<sup>c</sup> %R (percentage of cells infected) and RI (average number of rickettsiae per infected cell) for the intervals ending on days 3 and 7 represent the attached cells only.

<sup>d</sup> NA, Not applicable.

<sup>e</sup> ND, Not determined.