

Table 4. Effect of BBMV infection on nodulation, leghaemoglobin, nitrogenase activity and N₂-fixed of Faba bean plants

	No. of nodules per plant *		Size of nodules per plant *(cm)		Dry matter of nodules *		Total nitrogen **		Leghaemoglobin content ***		Nitrogenase activity ****		N ₂ -fixed *****	
	II	IV	II	IV	II	IV	II	IV	II	IV	II	IV	II	IV
25	14.75	10.00	0.125	0.035	0.1750	0.0035	3.025	3.157	0.75	0.62	35.52	25.60	352.70	265.25
35	24.50	14.75	0.35	0.15	0.4525	0.125	3.925	4.325	0.94	0.80	44.50	26.75	420.25	245.75
45	35.0	13.55	0.450	0.170	0.4256	0.0562	2.750	4.950	1.15	0.55	45.70	24.50	425.20	230.25
55	23.15	17.25	1.025	0.725	0.6225	0.0352	2.265	3.465	0.42	0.28	38.25	22.75	345.26	210.75
Average	24.35	13.88	0.488	0.270	0.4189	0.0269	2.991	3.974	0.815	0.563	41.010	24.90	385.85	238.0

* Average from 5 plants

** Total nitrogen as gm/100g dry matter nodules

*** Leghaemoglobin content calculated as optical density /g fresh weight

**** Nitrogenase activity measured by acetylene reduction

***** N₂-fixed was calculated as μ gm/pot/hr.

LSD

5% 2.85 0.125 0.175 0.251 0.125 5.25 25.25

1% 4.25 0.193 0.243 0.401 0.275 8.37 40.27