Table 1

The mean angular retardation of light, of wavelength 542 mμ, through living L. bulgaricus from 14 different cultures mounted in 0.25% NaCl, and their mean thicknesses calculated therefrom.

Culture no.	Date of culture and subcultures	Date of examination	Mean retardation $(\phi_1)$ from 10 measurements on different bacilli	Mean thickness (t)
Measurer	nents with the 2-mn	n double-focus d	bjective:	
!		]	(degrees)	(μ)
1	11/7	20/7	55.8	1.21
2,	11/7, sub. 16/7	21/7	56.4	1.53
3	11/7, sub. 16/7 and 24/7	27/7	52.6	1.14
4	25/7	28/7	52.8	1.14
4 5 6	25/7	29/7	53.3	1.12
	25/7, sub. 27/7	29/7	52.2	1.13
7 8	25/7, sub. 27/7	29/7	53.6	1.16
	25/7, sub. 27/7	29/7	52.0	1.13
9	25/7, sub. 27/7	30/7	52.4	1.14
10	25/7, sub. 27/7	30/7	53.6	1.16
Measuren	nents with the 2-mn	n shearing objec	tive:	
11	11/7, sub. 16/7	21/7	54.6	1.19
12	11/7, sub. 16/7 and 24/7	27/7	56.8	1.53
13	25/7	28/7	52.6	1.14
14	25/7	29/7	54.2	1.18