

OD

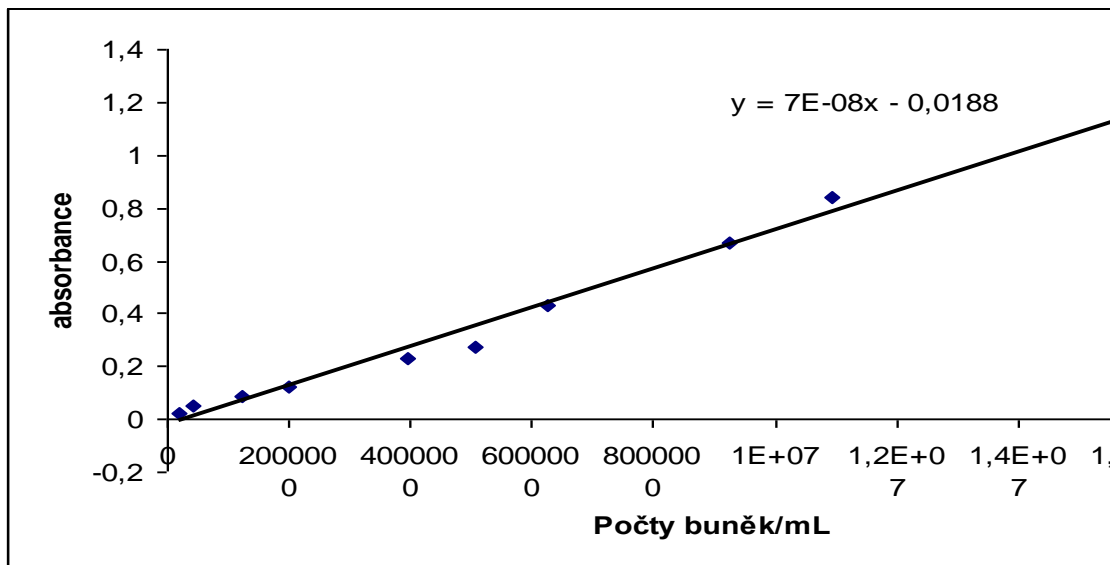
680

	1	2	3	4	5	6
A	0.024	0.027	0.027			
B	0.089	0.089	0.091			
C	0.132	0.135	0.142			
D						
E						
F						
G						
H						

calibration curve:

$$y = 7E-08x - 0,0188$$

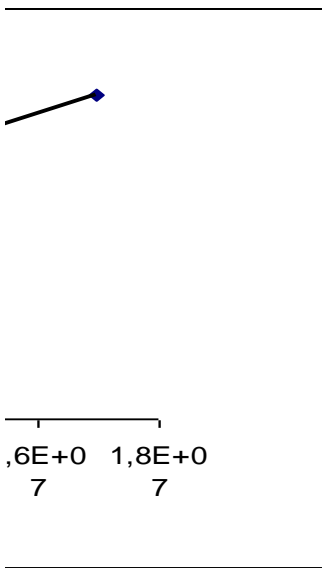
$$x = \frac{y + 0,0188}{7E-08}$$



algae - cell density calculation

	replicate 1	replicate 2	replicate 3	AVG	AVG-blank	# cells/mL
blank	0.024	0.027	0.027	0.026		
algal suspension culture 1	0.089	0.089	0.091	0.089667	0.063667	1178095.2
algal suspension culture 2	0.113	0.111	0.114	0.112667	0.086667	1506666.7

7	8	9	10	11	12
					0.028 ⁶⁸⁰
					0.026 ⁶⁸⁰
					0.028 ⁶⁸⁰
					0.027 ⁶⁸⁰
					0.026 ⁶⁸⁰
					0.028 ⁶⁸⁰
					0.027 ⁶⁸⁰
					0.028 ⁶⁸⁰



target # cells/mL	Dilution factor	Dilution factor rounded down
200000.0	5.890476	5
200000.0	7.533333	7