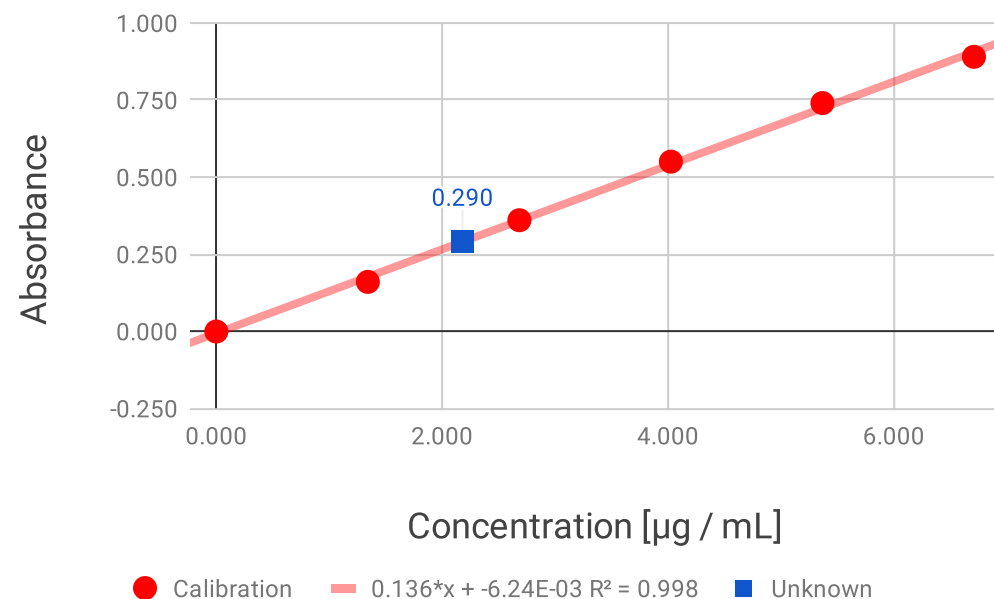


13/11/20

Mass of pure E131 671 [mg]
Volume of water 1000 [mL]
Concentration 0.671 [mg / mL]

Stock sol. [mL]	Final vol. [mL]	Conc. [µg / mL]	Absorb. Calibration	Absorb. Unknown
0.00	100	0.000	-0.001	
0.20	100	1.342	0.160	
0.40	100	2.684	0.360	
0.60	100	4.026	0.550	
0.80	100	5.368	0.740	
1.00	100	6.710	0.890	
		2.181		0.290

Absorbance versus concentration of E131



Concentration in the unknown solution 2.181 [µg / mL]
Quantity per candy 19.333 µg

With 5g of Blue Patent V (E131)

Number of Trolli Sharks that can be dyed: 34387 units
Quantity of Trolli Sharks that can be dyed 175.4 kg

Mass of the candy 5.100 g
Mass of the whole blue part of one candy 1.530 g
Volume of final solution 20 mL
Factor (due to the dilution of the candy) 66.7

Qty of pigment per candy: 145.402 µg

Nb of candies that can be dyed with 5g of pigment: 34387.5