

Find the proper CO₂ atmosphere in the incubator

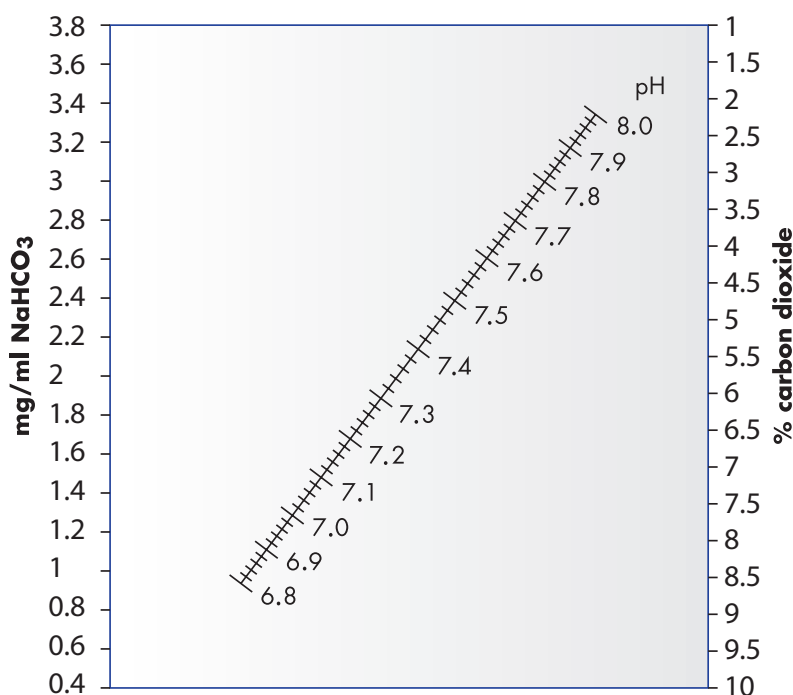
With the nomogram find the proper CO₂ atmosphere by drawing a straight line from the NaHCO₃ value to the pH value requested.

Procedure:

Connect the NaHCO₃ concentration of your medium to the desired pH value with the ruler. The point of intersection obtained with the second coordinate (CO₂ concentration) results in the value to which your in-

cubator has to be adjusted. Of course, you can also determine which pH value will be reached at given concentrations of NaHCO₃ and CO₂.

Fig. 1: Nomogram to find the CO₂ atmosphere



The following table shows a typical CO₂ concentration of frequently used media for the pH-value of 7.4.

Tab. 5: Typical CO₂ concentrations for commonly used media

Medium	Cat. No.	NaHCO ₃ content (mg/ml)	CO ₂ concentration for pH 7.4 (%)
MEM Hanks'	F 0345	0.350	1.0
Medium 199 with Hanks' salts	F 0635	0.350	1.0
MEM with Earle's salts	F 0315	0.850	2.3
MEM with Earle's salts	F 0325	2.200	5.5
Ham's F-10	F 0715	1.200	3.1
RPMI 1640	F 1213/F 1215	2.000	5.0
Medium 199 with Earle's salts	F 0613/F 0615	2.200	5.5
Iscove's	F 0465	3.024	7.6
DMEM	F 0405	3.700	10.0
DMEM	F 0415	3.700	10.0
DMEM	F 0435	3.700	10.0