

Appendix E

96-Well Plate Configuration

Note: The plate configuration shown below is a recommendation, based on experience in two validation studies. Other plate map designs are possible and are discussed by Harbell (2001). Plate configurations must be fixed in the SOP. To avoid errors, plate configurations should be kept constant if reader files have to be transferred to secondary software for computational concentration-response analysis.

Note: Since evaporation (during opening the door of the incubator) may take place in the peripheral wells, it is recommended to use these wells for blanks only. Since modern incubators are able to compensate the drop in humidity much quicker than older ones, columns 1 and 12 may be used for other purposes (e.g., two typical concentrations of the PC), while cells A2-A11 and H2-H11 can be used for the blanks.

	1	2	3	4	5	6	7	8	9	10	11	12
A	b	b	b	b	b	b	b	b	b	b	b	b
B	b	VC	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	VC	b
C	b	VC	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	VC	b
D	b	VC	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	VC	b
E	b	VC	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	VC	b
F	b	VC	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	VC	b
G	b	VC	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	VC	b
H	b	b	b	b	b	b	b	b	b	b	b	b

VC = untreated VEHICLE CONTROL
(mean viability set to 100%)

C₁ - C₈ = TEST CHEMICAL at eight concentrations
(C₁ = lowest, C₈ = highest)

b = BLANKS
(containing no cells, but treated with NR medium
and with NR Desorb solution)

