

Cedex Analyzer

Method of measurement	Digital image recognition
Viable/dead cell differentiation	Trypan Blue Exclusion Method
Detectable cell density range	5×10^4 - 1×10^7 cells per mL
Detectable cell diameter range	8 μ m - 40 μ m
Required sample volume	1000 μ L
Average measurement period	< 4.0 min
Geometric resolution	2.1 μ m/pixel
Chamber height	100 μ m
Material and Diameter of the capillaries	Teflon, 765 μ m
Operating temperature (Optimal image quality is achieved between 20 °C and 30 °C)	10 °C - 35 °C (50 °F - 95 °F)
Operating humidity	20 % - 80 % relative humidity (non-condensing)
Dimensions (Height/Width/Depth) mm	660 / 300 / 500
Weight	34 kg
Energy requirements	100-250 VAC, 50-60 Hz
Energy consumption	60 W

Minimum Hardware Requirements

Computer	x86 Architecture, Intel Pentium IV; 2 GHz minimum, 3 GHz recommended Minimum CD burner required, DVD-burner recommended if the computer will not be connected to a server
Operating system	Windows XP® Professional
RAM	Min. 512 MB, recommended 1 GB
Hard-disk storage	100 MB free hard-disk storage for the installation of the application Minimum of 10 GB hard-disk storage for data storage of approximately 1000 measurements, 80 GB recommended
Serial Ports	2 free ports
Frame Grabber	PC-eye 4 (Eltec)
Graphic card	Graphic card resolution, 1024x768 pixel, 24-bit color
Monitor	Color monitor or TFT, 1024x768 pixel, 24-bit color

Optional Multi Sampler

	MS20 T	MS20 C
Weight	< 9.0 kg	< 5.5 kg
Dimensions (Height/Width/Depth) mm	455 / 210 / 300	260 / 250 / 190
Operating temperature	10 °C - 40 °C (50 °F - 100 °F)	10 °C - 40 °C (50 °F - 100 °F)
Energy requirements, 50 - 60 Hz	100 - 240 VAC	100 - 240 VAC
Energy consumption	< 25 W	< 25 W
Number of Samples	20	20

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Data specification

Cedex⁺



Principle

The Cedex technology represents the industrial standard of automated cell culture analysis based on the Trypan Blue Exclusion Method. With its cutting edge image analysis software the Cedex automatically determines accurate data about cell density, viability as well as additional cell specific parameters. Furthermore, the Cedex technology has proven to fit into GMP-processes and complies with the 21 CFR Part 11 requirements.



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