

Data specification

Cedex Yeast

Cedex Yeast Analyzer

Method of measurement	Digital image recognition
Viable/dead cell differentiation	Methylene Blue Exclusion Method
Detectable cell density range	5×10^4 - 5×10^7 cells per mL
Detectable cell diameter range	2 μ m - 40 μ m
Detectable object diameter range	1 μ m - 90 μ m
Required sample volume	300 μ L
Measurement period (depending on No. of images pre-selected)	3.5 - 4.5 min
Geometric resolution	0.8 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 - 40°C (50°F - 100°F)
Maximum temperature change	5°C per hour
Maximum humidity deviation	5% per hour
Operating humidity	20% - 80% relative humidity (non condensing)
Dimensions (Height/Width/Depth)	465 mm / 405 mm / 535 mm
Weight	26.9 kg
Energy requirements	100 - 250 VAC, 50 - 60 Hz
Energy consumption	60 W

Minimum Hardware Features of the Cedex Yeast Computer

Computer	x86-Architecture, Intel® Pentium IV, 2 GHz or Windows® XP Professional
Operating system	or Windows® XP Professional
RAM	1 GB RAM
Hard-disk storage	20 GB for at least 1000 measurements
USB	3 free ports
Firewire	1 free port (400 Mbps, with 4-pin or 6-pin)
Graphic card	Resolution: 1024x768 Pixel, 24-bit color
Monitor (color monitor or -TFT)	1024x768 Pixel, 24-bit color

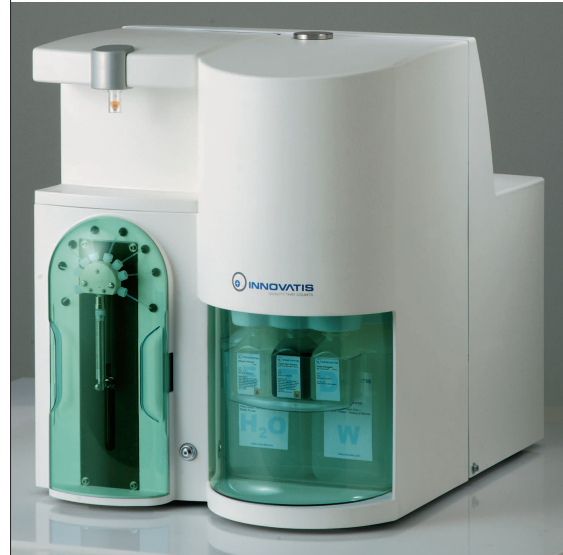
Multi Sampler

Number of samples	1 - 20
Average measurement period for 20 samples (depending on No. of images / measurement pre-selected)	72 - 92 min

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Principle

The Cedex Yeast - the automated image analysis systems for yeasts, based on Methylene Blue Exclusion Method. The moving microscope technology allows a highly precise and real complete view to the cell culture. It has never been easier to get results of cells and objects from 1-90 μ m.

