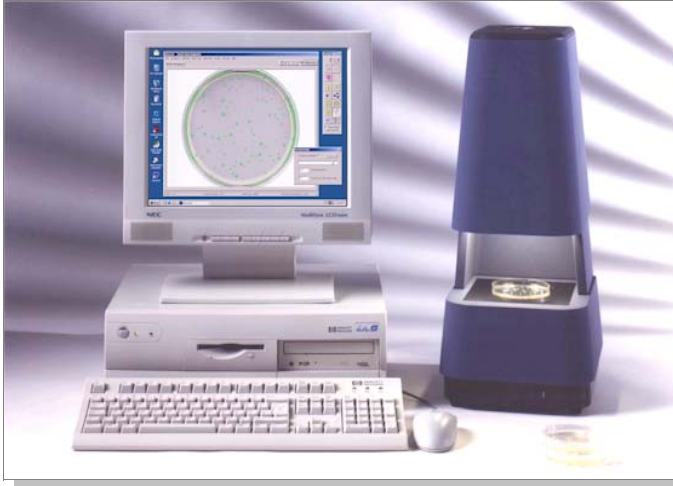


Sorcerer

Automated Colony Counter



Sorcerer system with Petri-viewer

- ◆ Instantly counts pour, spread and spiral plates; filters & 3M Petrifilm
- ◆ Stores configurations for multiple applications e.g. Ames, TVC, Coliforms
- ◆ Comprehensive measurement macro builder offers maximum flexibility in setting up measurement parameters
- ◆ Advanced, small footprint Petri-viewer offers a range of illumination options for different types of growth media
- ◆ Designed to comply with Good Laboratory Practice, FDA 21 CFR Part 11 and other international regulatory requirements
- ◆ Data transfer to Microsoft Excel, Microsoft Access and Oracle
- ◆ Software runs under Windows 95, 98, NT4, 2000 and XP

Sorcerer is the latest in a highly successful series of colony counters combining sophisticated image processing and analysis with an innovative Petri-viewer to provide fast, accurate counts of bacterial and mammalian colonies. Sorcerer is ideal for laboratories engaged in drug development and production, food and milk testing, environmental monitoring and public health.

The small footprint Petri-viewer utilizes incident, dark-field and transmitted illumination for different types of nutrient agars and other growth media. The use of cool white light ensures excellent contrast between colonies and substrate. The CCD camera and automatic lens relay a live image of the sample to the computer screen.

Sorcerer lets the laboratory supervisor create different configurations optimised for each application, for example TVC, Coliform, Ames etc. Each configuration includes system settings such as type of illumination, lens aperture, detection sensitivity and prompts for sample codes and dilution factors.

Sample Code	Dilution	Count	Count/Plate	Count/ml	Counted by	Date/Time	Comment
GWR 50	1	142	157	1570	Supervisor	22/11/99 17:52:12	
GWR 51	1	114	126	1260	Supervisor	22/11/99 17:52:26	
GWR 52	1	157	174	1740	Supervisor	22/11/99 17:52:50	
GWR 53	1	91	101	1010	Supervisor	22/11/99 17:53:29	
GWR 54	1	145	161	1610	Supervisor	22/11/99 17:53:58	
GWR 55	1	98	109	1090	Supervisor	22/11/99 17:54:10	Yeast
Control 1	0	145	161	161	Supervisor	22/11/99 17:54:37	
Control 2	0	129	143	143	Supervisor	22/11/99 17:54:51	
GWR 100	1	127	152	1520	Supervisor	22/11/99 17:55:06	
GWR 101	1	141	166	1660	Supervisor	22/11/99 17:55:37	
TSA 300	1	136	151	1510	Supervisor	22/11/99 17:55:34	
TSA 301	1	138	153	1530	Supervisor	22/11/99 18:41:32	
TSA 302	1	20	22	220	Supervisor	22/11/99 18:44:00	
L1	2	22	24	2400	Jessie	22/11/99 18:44:16	
L2	2	24	27	2700	Jessie	22/11/99 18:44:41	
L3	2	31	34	3400	Jessie	22/11/99 18:44:54	
L4	2	82	91	9100	Jessie	22/11/99 18:45:31	Excluded
L5	2	107	119	1190	Jessie	22/11/99 18:45:48	
L6	2	19	20	2000	Jessie	22/11/99 18:45:12	
L7	2	3	3	300	Jessie	22/11/99 18:46:27	Yeast
L8	2	26	31	3100	Jessie	22/11/99 18:45:37	Yeast
L9	2	20	22	2200	Jessie	22/11/99 18:47:00	
M20	1	14	16	160	Jessie	22/11/99 18:46:52	
Control 3	0	20	22	22	Jessie	22/11/99 18:47:09	

Sorcerer

In routine use, the user selects the required configuration, enters text against headings and places the sample in the Petri-viewer.

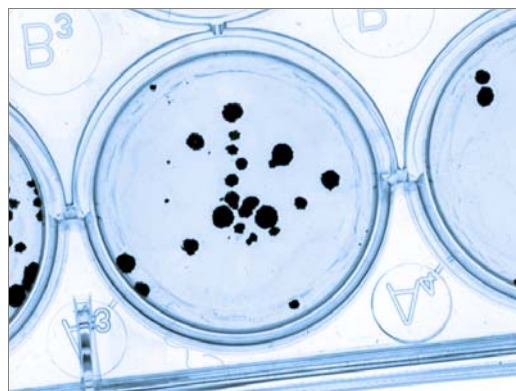
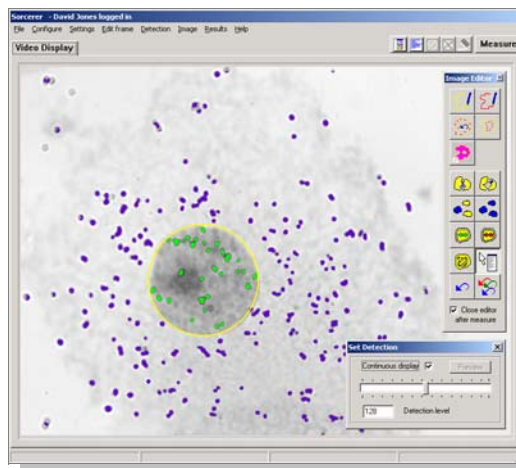
A single click starts the measurement sequence as defined by a macro. Usually this includes commands to automatically separate overlapping colonies, highlight detected colonies in color and compute the count. It is also possible to include commands to eliminate objects such as debris based on their size, shape and intensity.

Sorcerer has facilities to overcome problems caused by cloudy media, irregularly shaped growths and unevenly poured plates. A range of image editing functions allows authorized users to interactively modify the image when required e.g. to remove contaminating particles.

Colony counts are shown on screen after each measurement and also appear along with sample code and dilution factor data in a Microsoft Excel workbook. Data may also be transferred directly to Microsoft Access and Oracle database tables.

The program has comprehensive software for analysis of individual objects thereby allowing colonies to be classified according to their size.

Sorcerer is designed to conform to international GLP's and other regulatory requirements. Encoded audit trail files automatically record all system activity and all data. It is fully compliant with the FDA 21 CFR Part 11 Final rule on Electronic Records & Electronic Signature.



Sorcerer applications include:

- Mouse lymphoma assay
- Unscheduled DNA synthesis
- Particle size and shape analysis
- Chemotaxis cell migration counts
- Inhibition zone measurements
- Elispot assays
- Multipoint plate scanning
- Plaque counts
- Direct Epi-fluorescent microscopy

Perceptive Instruments' Quality Management System has been awarded approval to the international standard ISO 9001:2000 by Lloyds Register Quality Assurance, the UKAS & RAB accredited certification body.

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PERCEPTIVE INSTRUMENTS

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