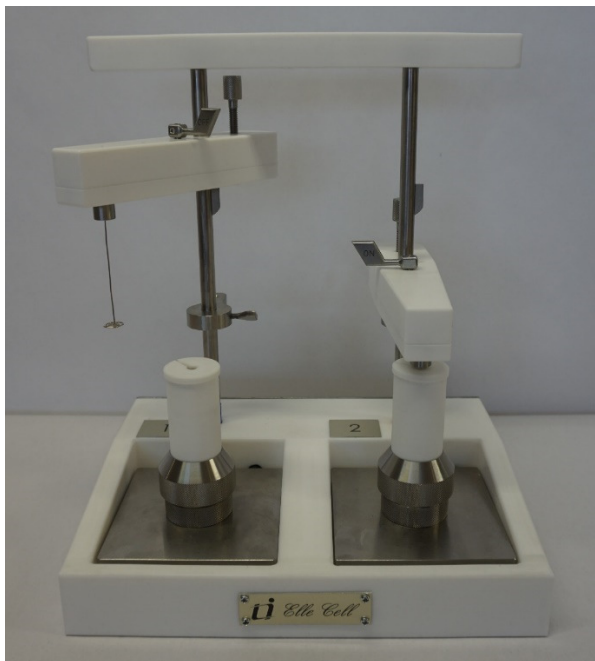


LOKMIS *ElleCell*



ElleCell is specially designed electrodeposition system for preparation of alpha spectrometric sources for high resolution spectroscopy measurements. Physicists and Chemists will find this system extremely easy to use. Robust, durable ElleCell is easy to operate, clean and deactivate. Cells could be boiled in concentrated nitric acid during deactivation.

LOKMIS designed this apparatus to be able to work in hazardous conditions: Its' main materials are Stainless Steel and Polytetrafluoroethylene – materials that are most resistive against strong acids or bases. Precision machining ensures excellent hermetic properties of the cell.

The modular two-cell system is a standard option. Extensions are available to almost unlimited number of cells.

The apparatus could be easily disassembled for cleaning or maintenance.

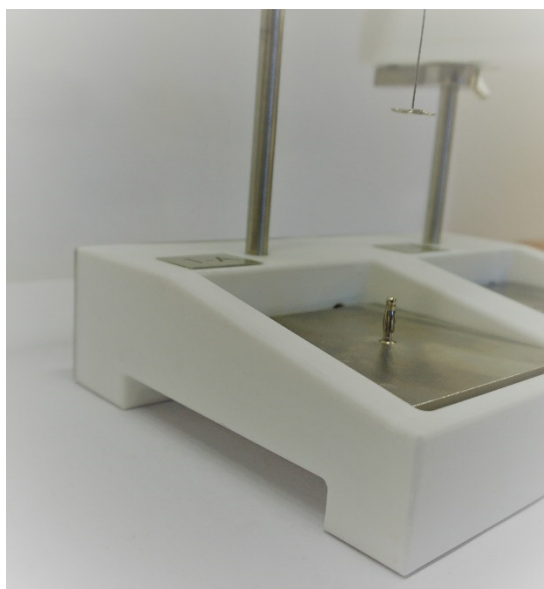
Each channel includes special shape platinum anode, which is inserted into the cell. The distance between the cathode and the anode has a precise adjustment.

LOKMIS *ElleCell*



Each ElleCell is supplied with a suitable multichannel power supply. Channels are independent from each other, the operator can setup current value (A) for each channel independently, voltage will be automatically adjusted to hold preset current. During the deposition process, at any time, the operator can change the stabilization type and values. Each channel has an indicator for real-time current and voltage readings.

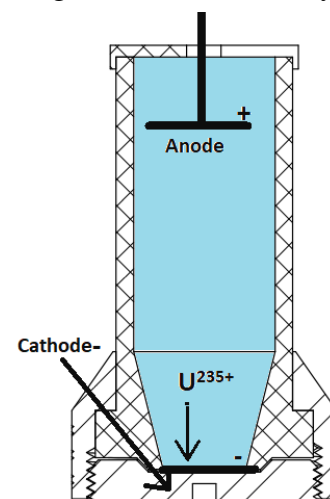
The cell is divided into 3 larger parts – the bottom SS base, lower deposition vessel and active volume vessel (cell). Lower deposition and active volume vessels are made from Polytetrafluoroethylene.



The bottom base is made from solid stainless steel.

During electrodeposition, the base stands on a square stainless-steel plate. This measure helps to dissipate the heat, which is generated in the solution during electrodeposition. The bottom metal base and lower deposition vessel are tightened with flat head special bolt. The deposition disc is enclosed between the flat head bolt and active volume vessel.

Additional options are available for using different diameters deposition discs.



The Polytetrafluoroethylene cell can be inter-changed for decontamination if required. The Polytetrafluoroethylene offers high chemical and radiochemical resistance, low and high temperature capability, resistance to weathering, low friction, electrical and thermal insulation, and is “non-sticky”. The upper part is suited for precise volume measurement of the sample. A funnel-like inner edge will capture spillages of any of the sampling material.

Each cell has a special cover, which will also protect the user from unnecessary spilling.



LOKMIS *ElleCell*

Technical specs

ElleCell4 System:	
Channel quantity	2 with extension capability (4, 6, 8 and more)
Main materials	Polytetrafluoroethylene, Stainless steel
Cell:	
Sample Volume	Standard volume 25 ml. Upon request larger volumes are available
Material	Base: Stainless steel (AISI316); Inner cell: Polytetrafluoroethylene.
Electrode	Solid Platinum, standard \varnothing 0,75 mm. (others upon request)
Disk for electrodeposition	Stainless steel polished discs with protective tape. Standard \varnothing 25,4 mm. Other dimensions/materials upon request
Power Supply	
Max Voltage (Typical)	Up to 30 V, independent for each channel
Max Current (Typical)	Up to 2A, up to 5A or up to 10 A (depends on the power supply option), independent for each channel.
Stabilization type	Current or voltage, selectable by the operator, with fine adjustment
Display	LCD, independent for each channel

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