

Cellulose acetate electrophoresis is an important technique in clinical diagnostics. The Cleaver Scientific range of cellulose acetate products offers a complete system solution for research and clinical cellulose acetate electrophoresis applications. CellasGEL includes both equipment and consumables to assist in the research and diagnosis of specific disease states.

The ideal tank for standard 'dry' membrane and 'wet' gel cellulose acetate techniques, the Cellas electrophoresis system is designed and built to our high quality standard to address both routine clinical and research requirements. Two adjustable supports, which can be positioned anywhere within the tank, readily accommodate different lengths of dry cellulose acetate membrane to a maximum 20cm.



KEY FEATURES

Qualitative identification and quantification of Hb variants. Finding abnormalities of Hb synthesis like sickle cell disorders, thalassaemias etc.

- Ready kit available for the analysis of Hemoglobin; serum proteins; Lipoproteins; Immunofixation Electrophoresis (IFE)
- Compact high resolution system for clinical electrophoresis
- Accommodates strips and gels up to 24x20cm
- Densitometer software and scanner available

ORDERING INFORMATION, CELLASGEL APPLICATIONS PACKAGES EQUIPPED WITH BRIDGES, APPLICATOR AND CLINICAL TEST KIT

CSL-CELLAS Horizontal Unit for Cellulose Acetate Electrophoresis		CSL-CELLASMINI Mini Horizontal Unit for Cellulose Acetate Electrophoresis	
Code	Description	Packages (Kit and Accessories) required, Code	Diagnostic Application
CSLKITCU	CellasKIT: serum and concentrated urine IFE Kit content, sufficient for 5 patients (10x semi-micro tests): 30 CellasGEL strips & TGS buffer; Coomassie stain, clearing & saline solutions; volumetric distributors & antisera (anti-IgG, IgA, IgM, Ig & Ig); blotting paper & mylar film. Excludes: Destain.	CSLKITCU-ABS Includes: 1x CSLKITCU, 1x CSLAPPS22, 3x CSLBDG8.5S	MGUS, MM
CSLKITI2432	CellasKIT: serum IFE Kit content, sufficient for 24 patients (semi-micro) & 32 (micro): 24 CellasGEL strips & Tris-Hippurate buffer; AmidoBlack stain, saline & clearing solutions; volumetric distributors & antisera (anti-IgG, IgA, IgM, Ig & Ig); blotting paper & mylar film. Excludes: Destain	CSLKITI2432-ABS Includes: 1x CSLKITI2432, 1x CSLAPPS6, 6x CSLBDG8.5S CSLKITI2432-ABM Includes: 1x CSLKITI2432, 1x CSLAPP8M 6x CSLBDG8.5S	MGUS, MM
CSLKITSP100200	CellasKIT: serum proteins Kit content, sufficient for 100x semi-micro or 200x micro tests: 25 CellasGEL strips & Tris-Hippurate buffer; Ponceau S stain, destain & clearing solutions; blotting paper & mylar film	CSLKITSP-ABS Includes: 1x CSLKITSP100200 1x CSLAPPS4, 3x CSLBDG8.5S CSLKITSP-ABM Includes: 1x CSLKITSP100200 1x CSLAPP8M, 3x CSLBDG8.5S	Dysproteinaemia; Albumin, Alpha-1, Alpha-2, Transferrin, C3 & Gamma Globulin Quantitation
CSLKITSP150200	CellasKIT: serum proteins (high resolution) Kit content, sufficient for 150x semi-micro or 200x micro tests: 25 CellasGEL strips & TGS buffer; Coomassie stain, citric acid & clearing solutions; blotting paper & mylar film. Excludes: Destain	CSLKITSPHR-ABS Includes: 1x CSLKITSP150200 1x CSLAPPS4, 3x CSLBDG8.5S CSLKITSPHR-ABM Includes: 1x CSLKITSP150200 1x CSLAPP8M, 3x CSLBDG8.5S	Incipient Gammopathies
CSLKITHG100	CellasKIT: haemoglobin Kit content, sufficient for 100x semi-micro tests: 25 CellasGEL strips & Tris-Glycine buffer; Ponceau S stain, destain & clearing solutions; blotting paper & mylar film	CSLKITHG100-ABS Includes: 1x CSLKITHG100, 1x CSLAPPS4 3x CSLBDG8.5S	Haemo- globinopathies
CSLKITLP100	CellasKIT: lipoproteins Kit content, sufficient for 100x semi-micro tests: 25 CellasGEL strips & Tris-Hippurate buffer; Sudan Black stain & clearing solution; blotting paper & mylar film	CSLKITLP100-ABS Includes: 1x CSLKITLP100 1x CSLAPPS4 3x CSLBDG8.5S	Hyper-lipidaemias

CellasGEL 'wet' gels

CellasGEL 'wet' cellulose acetate gel strips are ready to use and overcome many of limitations of traditional 'dry' cellulose acetate membranes. CellasGEL's advantages over dry cellulose acetate membranes are as follows:

1. Wet state – unlike dry membranes, CellasGEL is a cellulose acetate film produced in a wet form to facilitate buffer adsorption, but without the entrapment of air bubbles that inhibit electrophoresis

2. Greater thickness – CellasGEL's greater thickness (190- 500µm) compared to dry membranes (160-190µm) allows application of larger sample volumes to enhance detection of poor quality specimens low in protein content

3. High resolution – samples may be applied to CellasGEL as wider but finer bands, without risk of diffusion, to make band quantitation more reproducible; this is further enhanced by extended migration distances (60-70mm) that improve band separation

4. Amphiphilic – CellasGEL's lipophilic and hydrophilic properties make it the perfect separation medium for many different biological molecules, ranging from lipoproteins to haemoglobins. CellasGEL is supplied either as individual packs of 25 or 100 strips or within clinical test kits.

ORDERING INFORMATION

CSLGEL2.514250	2.5x14 CellasGEL 250 micron 100/pack	CSLGEL5.714250	5.7x14 CellasGEL 250 micron, 25/pack				
CSLGEL2.514200	2.5x14 CellasGEL 200 micron 100/pack	CSLGEL5.714190	5.7x14 CellasGEL 190, high resolution, 25/pack				
CSLGEL2.514190	2.5x14 CellasGEL 190, high resolution, 100/pack	CSLGEL2.517200	2.5x17 CellasGEL 200 micron, 25/pack				
CSLGEL5.714500	5.7x14 CellasGEL 500, high volume, 25/pack	CSLGEL5.714200	5.7x14 CellasGEL 200 micron, 25/pack				
Part Number	Description	Volume applied / sample band width	Compatible Strip Size	Part Number	Description	Volume applied / sample band width	Compatible Strip Size
CSLAPPS22	1x 2-specimen semi-micro applicator	0.7µl / 7mm	2.5x14cm	CSLAPPS6	1x 6-specimen semi-micro applicator	0.7µl / 7mm	5.7x14cm
CSLAPPS4SP	1x 4-specimen semi-micro applicator	0.9µl / 9mm	5.7x14cm	CSLAPPM8	1x 8-sample micro applicator	0.3µl / 5mm	5.7x14cm
CSLAPPS4	1x 4-specimen semi-micro applicator	1.2µl / 9mm	5.7x14cm				

CellasGEL WET MEMBRANE BRIDGES AND DENSITOMETER

CSLBDG8.5S	1x 8.5cm bridge for 1x 5.7x14cm or 2x 2.5x14cm CellasGEL strips
CSLDENS	TurboScan Software Densitometer (excludes computer and scanner)
CSLSCAN	Flatbed scanner for TurboScan software

CellasMEM 'dry' membranes

Although CellasGEL cellulose acetate gels have a number of advantages over traditional dry cellulose acetate membranes, many manual systems and modern robotic platforms still use dry cellulose acetate membranes, which are usually supported on a plastic backing. Consequently, CellasMEM, a range of dry cellulose acetate membranes supported on a Mylar film has been developed to address this demand.

Package deals provide a quick and convenient solution for those users wishing to perform the more popular Helena-type applications. The most

basic kit includes 25x76 and 60x76mm CellasMEM membranes, 8-sample micro applicator, and paper wicks, while the complete version also contains a Cellas tank and new NANO500 power supply. Each CellasMEM dry cellulose acetate membrane is available in 25x76mm (MEM257650), 60x76mm (MEM607625) and 94x76mm (MEM947625) plate sizes, and is compatible with the manual and automated platforms of many leading and emerging brands within the clinical electrophoresis market, including: Helena Laboratories, Interlab and Seleo.

CellasMEM is supplied either as individual packs of 25 or 50 strips to perform manual assays for Serum Protein (Dysproteinaemia; Incipient Gammopathies) and Haemoglobin Analyses (Haemoglobinopathies such as Thalassemias and Sickle Cell Disorders).

SİPARİŞ BİLGİSİ

CellasMEM KURU MEMBRAN APLİKATÖRLERİ

CSLMEMAPPS6	CellasMEM 6-örnek yarı mikro aplikatör
PAPER WICKS	
CSLMEMWICK	CellasMEM paper wicks 190x60mm, 100'lük paket
CSLMEMWICKH	CellasMEM paper wicks 220x40mm, pack of 100; uygun Helena-tip selüloz uygulama için-, MEM607625, ile MEM577625, MEM947625, MEM9413525 membranlar
Kod	Ölçü (WxL) Paket Ölçüsü Manuel Sisteme Uygun/ Otomatize Sistem

CellasMEM MANUEL TEST MEMBRANI

CSLMEM257650	25x76mm	50/pack	Helena Titan 3 system
CSLMEM607625	60x76mm	25/pack	Helena Titan 3 system
CSLMEM577625	57x76mm		
CSLMEM947625	94x76mm		Helena Titan 3 system
CSLMEM9413525	94x135mm	25/pack	Helena Titan 3 system
CSLMEM7660P25	76x60mm, punched	25/pack	SELEO Adalya 24, Selvet 24, Thera 72, Exprime, Giant

CellasMEM PAKET FIRSATLARI

CSLMEMHKIT	CellasMEM Helena-Type Kit, içerir 5x76mm (MEM257650) & 60x76mm (MEM607625) membranes; MEMAPPM8 8-sample micro applicator & MEMWICKH 220x40mm paper wicks
CSLMEMHCOMPLETE	CellasMEM Helena-Type Workstation, içerir MEMHKIT, CELLAS tank & nanoPAC500 (500V, 400mA, 120W) güç kaynağı (page 62)
CSLMEMBA	CellasMEM Cleaver olmayan tanklar için köprü adaptörü

Kod	Ölçü (WxL)	Paket Ölçüsü	Manuel Sisteme Uygun/ Otomatize Sistem
CellasMEM TEST MEMBRANLARI			
CSLMEM307625	30x76mm	25/pack	Genio Interlab - small
CSLMEM607624	60x76mm	24/pack	Genio Interlab - standard
CSLMEM7662P25	76x62mm, punched	25/pack	Interlab 648 ISO, 648 PC
CSLMEM7413625	74x136mm	25/pack	SAE - NT
CSLMEM7822725	78x227mm	25/pack	SAE 500/600
CSLMEM8012525	80x125mm	25/pack	Diafero Standard
CSLMEM2508025	280x80mm	25/pack	Diafero Extra
CSLMEM8022525	80x225mm	25/pack	Cliniphor
CSLMEM762325	76x23mm	25/pack	Saechem
CSLMEM678930	67x89mm	30/pack	Smart
CSLMEM7618025	76x180mm	25/pack	Pragma
CSLMEM7621025	76x210mm	25/pack	Megaphore



APPS22



APPS4SP



APPSM8



Cellas Boxes



APPS4



APPS6



Paper Wicks



Bridges

Part Number	Description	Volume applied / sample band width	Compatible Strip Size
CSLAPPS22	1x 2-specimen semi-micro applicator	0.7µl / 7mm	2.5x14cm
CSLAPPS4SP	1x 4-specimen semi-micro applicator	0.9µl / 9mm	5.7x14cm
CSLAPPS4	1x 4-specimen semi-micro applicator	1.2µl / 9mm	5.7x14cm

Part Number	Description	Volume applied / sample band width	Compatible Strip Size
CSLAPPS6	1x 6-specimen semi-micro applicator	0.7µl / 7mm	5.7x14cm
CSLAPPM8	1x 8-sample micro applicator	0.3µl / 5mm	5.7x14cm

Using CellasGEL

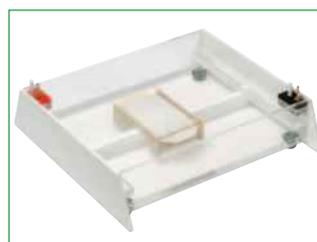
1. Equilibrate a CellasGEL for 10 minutes in Electrophoresis buffer using an agitating platform (e.g. 3D Shaker, page 84)
2. Dry surplus buffer from the CellasGEL before securing it to a Bridge located within a pre-prepared Cellas tank
3. Apply samples to the CellasGEL using the appropriate Applicator, and electrophorese at 200V for 30-9 secs (see Power Supplies, Page 60)
4. Remove the CellasGEL from the tank, and use the required Clinical Test Kit for staining and destaining and clearing
5. Place the CellasGEL on a suitably sized mylar sheet or glass plate and dry in an oven for 10 minutes at 80°C
6. Quantify bands using Scanner and Densitometer Software



Step 1



Step 2



Step 3