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## Реагенты для горизонтального электрофореза нуклеиновых кислот



**Агароза высокого качества для электрофореза нуклеиновых кислот. Clever для ДНК и Clever для окружающей среды CleverGEL** — это новая экологически чистая агароза, подходящая для рутинного анализа нуклеиновых кислот с использованием стандартных процедур электрофореза. CleverGEL изготовлен так, чтобы исключить органические растворители, вредные для морской жизни, что делает его более безопасным для окружающей среды, чем обычная агароза.





	n	n	solution	n	on	n	n	solution
<b>Moisture</b>	10%	10%	10%	10%	10%	10%	10%	10%
<b>Gel Strength</b>	>1200 g/cm2 (1% [w/v] Gel)	>1200 g/cm2 (1% [w/v] Gel)	>1200 g/cm2 (1% [w/v] Gel)	>1200 g/cm2 (1% [w/v] Gel)	>1200 g/cm2 (1% [w/v] Gel)	>1200 g/cm2 (1% [w/v] Gel)	>1200 g/cm2 (1% [w/v] Gel)	>1200 g/cm2 (1% [w/v] Gel)
<b>Nuclease &amp; Protease Free</b>	true	true	true	true	true	true	true	true



## DNA Ladders

SKU: CSL-MDNA

- Available in 6 molecular weight ranges
- Crisp band patterns
- Ready to use with loading dye included
- Stable at room temperature

[SPECIFICATIONS](#)





runSAFE stain 1ml/vial

SKU: **CSL-RUNSAFE**

[SPECIFICATIONS](#)

SKU	CSL-RUNSAFE	CSL-RUNSAFE2000	CSL-RUNSAFE500	CSL-RUNSAFEPLUS500
Size Range	50bp □ 20Kb	500-2000bp	<500bp	>500bp
Tracking dyes	Bromophenol Blue, Xylene Cyanol FF, Orange G	Xylene Cyanol Blue, Orange G	Orange G	Bromophenol Blue, Xylene Cyanol Blue



## Agarose, Low Melting point

SKU: **CSL-LMA**

### [SPECIFICATIONS](#)

SKU	CSL-LMA100	CSL-LMA5	CSL-LMA50
Weight (g)	100	5	50
Agarose Type	Low Melting Point	Low Melting Point	Low Melting Point
CAS	39346-81-1	39346-81-1	39346-81-1
EEO	0.1	0.1	0.1
Gelling Point	26-30C	26-30C	26-30C
Melting Point	65C	65C	65C

<b>Solubility</b>	Clear, colourless @ 2% [w/v] solution	Clear, colourless @ 2% [w/v] solution	Clear, colourless @ 2% [w/v] solution
<b>Moisture</b>	10%	10%	10%
<b>Gel Strength</b>	>200 g/cm2 (1% [w/v] Gel)	>200 g/cm2 (1% [w/v] Gel)	>200 g/cm2 (1% [w/v] Gel)
<b>Nuclease &amp; Protease Free</b>	true	true	true



## Agarose, High Resolution

SKU: **CSL-HRA**

- High resolution separation of DNA fragments
- Nuclease and Protease free
- ideal for fragments of 20 – 800 bp



## Tris-Borate-EDTA (TBE) Buffer

SKU: **TBE**

- Standard Horizontal Electrophoresis Buffer
- Available as liquid or powder
- Compatible with all Cleaver Scientific gel tanks



## Agarose Tablets 100g, Low EEO, 200 x 0.5g

SKU: **CSL-AGTAB**

Environmentally friendly CleverGEL agarose is now available in tablet form for routine analysis of nucleic acids using standard electrophoretic procedures.



Supplied as 200 tablets in total, each tablet contains 0.5g of CleverGEL agarose which eliminates the need to weigh out loose agarose powder. Because each tablet is fast-dissolving all that is required is to add the desired number of tablets to the buffer, heat, dissolve and then prepare the gel as normal.



## RNase-Free Water

SKU: RFW

- DEPC-treated to eliminate enzyme activity
- Autoclaved
- Perfect for use in PCR and Northern blotting techniques



## Tris-Acetate-EDTA (TAE) Buffer

SKU: TAE

- Standard Horizontal Electrophoresis Buffer
- Available as liquid or powder
- Compatible with all Cleaver Scientific gel tanks



### proBLUE Colorimetric DNA Stain 120ml (10x)

SKU: PROBLUE

Agarose electrophoresis of DNA requires a staining step in order to visualise the DNA fragments. This can be done safely using methylene blue solution. Methylene blue binds to negatively charged DNA making DNA visible as blue bands within agarose following electrophoresis.

Methylene blue solution is provided as a 10x concentrate. To use, dilute 10x concentrate by mixing one part of methylene blue with nine parts of water (Eg. 100 ml of 10x concentrate added to 900 ml water).

The 1x methylene blue can then be used for staining of DNA bands within agarose gels. Place your Agarose gel into a small, clean gel-staining tray. Pour sufficient 1x methylene blue stain into a suitable tray in order to cover the agarose gel. Allow to stand until DNA bands become visible within the agarose. This can take up to 16 hours (overnight). Once staining is complete, rinse the agarose gel with clean water. Improved resolution of DNA bands can be achieved by allowing the gel to destain in a new clean trays and cover with clean water. For best results leave for approx 20 minutes on a shaker with a slow shaking motion. Changing the water during the time will also improve the destaining action.

Alternatively, DNA can be stained using 10x methylene blue concentrate. Pour sufficient 10x methylene blue to cover the agarose gel and allow to stand for 5-10 minutes. Once staining is complete, rinse the agarose gel in clean water. Improved resolution of DNA bands can be achieved by allowing the gel to destain in clean water.

Once your gel has been stained and destained you can visualize your bands by placing the gel on a light table or if this is not available place the gel on a white surface.



## Powdered Tris-Borate-EDTA Running buffer

SKU: **TBEP**

Cleaver Scientific supplies TBE and TAE in powder and liquid form. Both TBE and TAE are widely used to separate nucleic acids in horizontal gel electrophoresis, and occasionally in vertical polyacrylamide gels. TBE has a higher buffering capacity than TAE, which is used for faster separations of linear double-stranded DNA. Cleaver Scientific's TBE is supplied in a bottle with enough powder to produce 10L of TBE buffer. The buffer may be opened as required and reconstituted in distilled water to make upto 10 litres of working solution. Buffers are also provided as ready-made 50x TAE and 10x TBE solutions in 1 and 4 litre volumes. These are ideal for laboratories running horizontal nucleic acid gels on a daily basis that require off-the-shelf working stock solutions.



## Gel Loading Dye

SKU: LOADDYE

- 10x bromophenol blue
- Mix with samples before loading
- perfect for routine electrophoresis

### SPECIFICATIONS

SKU	CSL-LOADDYE	CSL-LOADDYE10	CSL-ORANGEDYE
Volume (ml)	1.0	10.0	

## BP Grade Sterile Water, 1000ml

SKU: UPW1000

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