T03E-P04E

Nucleic Acids Gel Staining - Catalog

● Overview

DNA detection in electrophoresis gels[1]:
• **Colored stains**
DNAzure Blue Nucleic Acid Gel Stain, Ultrasensitive (~1 ng DNA) and UV-free
• **Fluorescent stains**
FluoProbes BET & *Uptima* Ethidium bromide DNA stains incl.EtBr Solution #32790B, 10ml dropper @ 6.25mg/ml. All
EtBr Destroyer (bags and spray to neutralize EtBr liquids and decontaminate surfaces)
EZ-Vision™ Nucleic Acid Gel Stain & Novel Juice DNA Nucleic Acid Gel Stain – visualize under UV.
RED SAFE STAIN Nucleic Acid Stain, for ds DNA and sDNA, replace BET without hazard concerns
GelRed & **GelGreen** - **DNA stain for electrophoresis gels,** simply the best nucleic acids stains! Comparison GelRed / GelGreen / SybrSafe / EtBr [NT-BQ041U]
Other Nucleic Acids stains

DNAzure™ Blue Nucleic Acid Gel Stain

PW-EGS

More than Meets the Eye

The creators of GelRed™ bring you DNAzure™, a novel DNA stain that allows visualization of bands by the naked eye. This technology relies on a proprietary DNA-binding dye that turns blue when exposed to light.

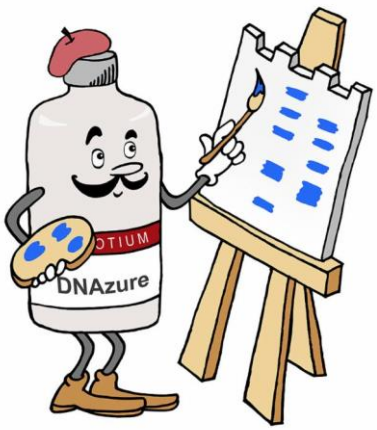
- **Visible by eye**: bands appear 5-30 min after light exposure
- **Ultrasensitive**: more sensitive than fluorescent stains (**~1 ng** dsDNA)
- **UV-free**: No need for EtBr or DNA-damaging UV light
- Convenient: image with your cell phone camera!

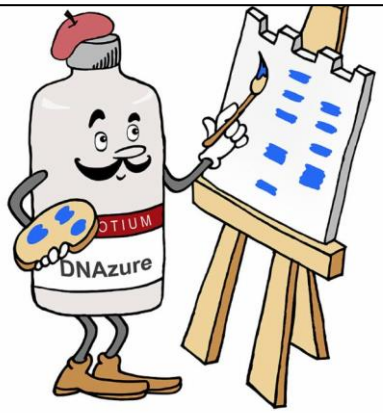
DNAzure™ is our most sensitive DNA gel stain, even top fluorescent stains.

Ref.: ANFA6E-21140 1ml ANFA60-21141 à10ml – (TechSheet-ANFA60)

DNAzure™ DNA stain allows visualization of bands by the naked eye. BENEFITS: • Visible by eye: bands appear 5-30 min after light exposure • Ultrasensitive:~1 ng dsDNA • UV-free: No need for EtBr or DNA-damaging UV light • Convenient: image with your cell phone camera!

"I'm zure like what I see."





Stains all (DNA/RNA/Protein)

Stains DNA in blue, RNA in purple, proteins in Red!

Stain-All JQ6531-25 mg
Soluble in DMSO. λexc./em.:573/609nm (M)

Stains-all is suitable for differential staining of nucleic acids and proteins. It stains proteins in red. As little as 3 ng (123 BP fragment) of pBR322/Hae III digest DNA polyacrylamide gel. PAGE gels are stained in the dark and then destaining by rem exposing it to the light from a light box until sufficient destaining has occurred. A dissolving the dye in formamide and buffer.

More than Meets the Eye

EZ-VISION™ dyes provide a safe, non-toxic and non-mutagenic stains for electrophoresis gels of DNA, RNA and Proteins.

• EZ-VISION Bluelight DNA dye

EZ-VISION Bluelight DNA dye provides a safe, non-toxic and non-mutagenic alternative to Ethidium Bromide for instantaneous band visualization for use in either pre-cast or post-gel staining under Blue light or UV illumination of agarose gels.
It forms a tight complex with the sample DNA and co-migrates with it during gel electrophoresis. As little as 1 - 2 ng of DNA can be detected. The dye is compatible either with a UV transilluminator or a gel reader equipped with blue light excitation (such as a blue LED gel imaging system or a Dark Reader®). It is compatible with downstream applications such as gel extraction and cloning.

EZ-VISION BlueLight DNA GEL STAIN AYPL50-1B1680, 0.5ML (Zstable for at least one year)
One vial (0.5 mL) of 10 000X solution is sufficient for 100 mini - gels using it as either an in-gel or post-gel stain.

• non-mutagenic – environment safe
• compatible with documentation gels using blue-exciting light.
• In-gel and Post-gel staining
• Detects 1-3ng DNA
• Do not affect the DNA integrity – compatible with down stream applications.

Mutagenicity of EZ - Vision ® Bluelight DNA Dye was determined by Ames testing of *S. typhimurium* with and without metabolic activation with an S - 9 activation system.

• EZ-Vision® In-Gel Solution Technical sheet [aucun/interchim.com au 201803]

EZ-Vision® In-Gel Solution allows instant visualization of DNA bands in electrophoresis gels upon UV exposure.
It is is designed for in-gel preparation: simply added it to molten agarose prior to gel casting, and visualize bands on an UV transilluminator immediately. Alternatively, It can be used to stain the gel after electrophoresis (mix it with your DNA sample, run on gel).
It is supplied as a 6X loading buffer containing 15% Ficoll and a single tracking dye that migrates at 10 bp in a 1% agarose gel.

EZ VISION In Gel Solution, 10 000X	BXQ750-N391, 1x 0.5 ml (L)
EZ VISION In Gel SolutioN, 10 000X	BXQ751-N391, 1 x 15 ml (Dropper Bottle)
EZ VISION In Gel Solution, 10 000X	BXQ752-N391, 1 x 5 ml (Dropper Bottle)

• EZ-Vision® Dyes Loading Buffers Technical sheet CD0660

EZ-Vision® Dye allows instant visualization of DNA bands in electrophoresis gels upon UV exposure.
It is supplied as a 6X loading buffer, including one, two or three tracking dyes.
Simply mix with DNA sample, run on gel and immediately visualize bands on an UV.

EZ-VISION Sample Kit	CL1301-N472-3PK, 03 x 1 ml
EZ-VISION ONE, DNA Dye as Loading Buffer 6X	CL1280-N472, 5 x 1 ml CL1281-N472, 1 x 500 ul
EZ-VISION TWO DNA Dye as loading Buffer	DY6270-N650, 05 x 1 ml
EZ-VISION THREE DNA Dye as loading Buffer 6X	CD0660-N313, 05 x 1 ml
EZ-VISION Sample Kit, DNA Dye as Loading Buffer 6X	CL1300-N473-2PK, 2 x 1 ml (One & Three)
EZ-VISION Sample Kit, DNA Dye as Loading Buffer 6X	CL1301-N473-3PK, 3 x 1 ml (One & Two & Three)

• EZ-Vision® DNA Ladders

EZ-VISION 100BP DNA Ladder	BXQ760-N856-300UL, 1 x 300 ul
EZ-VISION 1KB DNA Ladder	BXQ770-N854, 1 x 600 ul
EZ-VISION PCR Ladder	BXQ780-N853, 1 x 500 ul

• EZ-Vision® RNA stain Technical sheet YT3610

RNA EZ-Vision® is a non mutagenic fluorescent dye for staining RNA bands resolved on denaturing agarose gels containing formaldehyde. The dye co-migrates with the RNA samples during electrophoresis and provides immediate band visualisation upon illumination with UV light. No post run staining or destaining is needed.
Supplied in a 1,5X loading buffer, it stains RNA during the denaturation immediately prior to gel loading . The loading buffer includes formamide and bromophenol blue tracking dye. If the stock RNA concentration is <1 mg/ml, RNA EZ-Vision® should be used as a 2X solution instead of a 1X solution.

RNA EZ-VISION YT3610-N717, 2 x 1.5 ml

- Ideal for environments needing to reduce use of ethidium bromide
- Recommended for denaturing agarose gels with formaldehyde
- Sensitive to 150 ng of RNA
- Compatible with downstream applications including Northern blots

•EZ-Vision® Protein Stain Technical sheet GV1580

Protein EZ- Vision™ is a non-haza rdous fluorescent reagent that produces instant visualization of protein bands upon UV illumination of SDS-PAGE gels.

Protein EZ-Vision® includes Fluorescent Protein Dye that comigrates with protein-SDS complexes during electrophoresis. Post-run staining and destaining are completely eliminated and protein can be visualized immediately after the run by placing the gel on a standard UV transilluminator.

EZ-VISION, 4X Protein Loading Buffer GV1580-N836, 1 x 1 Kit

Includes: Two 1 ml tubes Supplied in a 4X loading buffer

- Convenient loading buffer and visualization dye for proteins
- Sensitivity down to 100 ng protein
- Immediate visualization of protein after electrophoresis
- Compatible with downstream Western blotting

Novel Juice DNA gel stain

PW-EGS

•Novel Juice DNA gel stain loading buffer, 6x ref.FV9670, 1ml

a non-mutagenic fluorescent rstain for DNA bands upon Blue Light or UV illumination of agarose gels.

Presentation here [SHGDXc]

Fiche technique

RED Safe Nucleic Acid Gel Stain

PW-EGS

Safe and economic nucleic acid gel stain

RED SAFE STAIN Nucleic Acid Stain (20 000X) Ref.: EO5160-21140/1 ml (TechSheet-EO5160)

- Used for detecting **double-strand DNA and single- stranded RNA**
- Alternative to the ethidium bromide staining
- As **sensitive** as EtBr or more sensitive than that
- **Non-toxic, non-mutagen ic and non-carci nogenic**
- No hazard waste

RedSafe™ Nucleic Acid Staining Solution is a safe nucleic acid stain, an alternative to the traditional ethidium bromide(EtBr) stain for detect ing nucleic acid in agarose gels. It emits green fluorescence when bound to DNA or RNA. This new stain has two fluorescence excitation maxima when bound to nucleic acid, one centered at 309 nm and another at 419 nm. In addition, it has one visible excitation at 514 nm. The fluorescence emission of RedSafe bound to DNA is centered at 537 nm. RedSafe Nucleic Acid Stain is as sensitive as EtBr. The staining protocol for RedSafe stain is similar to that for EtBr. Compared to EtBr, known as a strong mutagen, RedSafe stain causes much fewer mutations in the Ames test. In addition, RedSafe has a negative result in mouse marrow chromophilous erythrocyte micronucleus test and mouse spermary spermatocyte chromosomal aberration test. So it is wise to choose RedSafe Nucleic acid Stainig Solution (20 000x) instead of EtBr for detecting nucleic acid in agarose gels.

RNAse and DNAse testing

PWBMG+QNA

●DNAse+RNAse Detection Kit

DNAse+RNAse Detection Kit	**PP-407L, 100 Tests**	**PP-407S, 20 Tests**

Fluorescence Based DNase And RNase Assay Kit. Technical Sheet

allows the detection of lowest amounts of RNase A, RNase T1, RNase 1 and other RNA degrading enzymes as well as DNase I and other ss- or ds-DNA degrading enzymes. It is ideal for contamination testing of a few samples as well as for routine process monitoring.

Using the DNase+RNase Detection Kit as little as 0.2 pg RNae A and 2 munits (approx. 4 pg) of DNase I can be detected within 20-30 min.

GelRed & GelGreen Nucleic Acid Gel Stain

PW-EGS

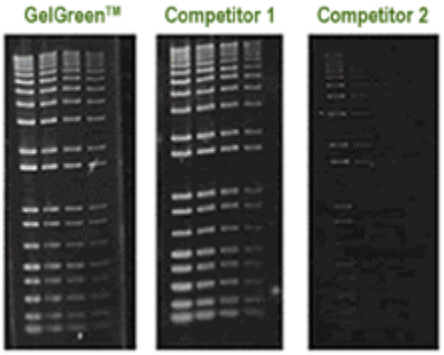
Simply the best stain for nucleic acids in gel

- **Excellent sensitivity** (much better than BET, similar to SG stain)
- **Not toxic** – not membrane permeable – cleaved by cell enzymes

=> Non-mutagenic (Ame's test) and non-cytotoxic

=> Safe to aquatic life for direct disposal in the drain

- Thermodynamically **stable** (microwavable, stored at room temperature)
- Still in gel to **stain small fragments** while ethidium bromide already left !
- Available in **red and green**, in water solution!
- **Maximal flexibility:** for dsDNA, as well as ssDNA
  for for agarose gels, as well as polyacrylamide ones
  applications for pre-cast gels, as well as standard gels
- **pre- or post-migration staining**
- **Destaining facultative**, stain can even by recycled.



GelRed™ Nucleic Acid Gel Stain, 10 000X in water	**BY1740**, 500 µl
GelRed™ Nucleic Acid Gel Stain, 3X solution in water	**BQ0410**, 4 L
GelGreen™ Nucleic Acid Gel Stain, 10 000X en DMSO	**BY1750**, 500 µl
GelGreen™ Nucleic Acid Gel Stain, 10 000X en Water	**CJ2730**, 500 µl

Price and technical sheet on line
Safety report
MSDS

Other Nucleic Acid Gel Stains

PWEPS

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Nile Red Sulfate

Nile blue sulfate,and Nile blue A, is a cationic dye that can be used to visualize DNA during electrophoresis. The dye is used both in the gel and in the gel buffer. At higher concentrations, Nile blue might change the migration of DNA and inhibit resolution

Nile Blue Sulfate **FP-IT2021, 100mg**
CAS: 3625-57-8; MW:353.8; λexc\λem = 633 / 672nm (M) Technical sheet
Nile Red Sulfate **FP-46875A, 100mg**
CAS: 73585-67-3; MW:318.37; λexc\λem = 450-500 / 528nm (M) Technical sheet

Methylene Blue

A general non toxic but temporary stain for DNA and RNA (do not intercalate). For electrophoresis gels, it can only be used as a post-electrophoretical stain for DNA. It is useful especially for oligonucleotides. It also stains RNA on hybridization membranes in northern blotting to verify the amount of nucleic acid present.

Methylene Blue **02284**
CAS:[61-73-4]MW: 319; Soluble in Water 50g/L, in ethanol at 10g/L; (x)
Methylene Blue, Chloride Trihydrate **022843, 100mg**
022846, 1kg
CAS:[7220-79-3]; MW: 373.90; Soluble in Water, DMSO; (x): λabs.: 661nm
+

See also Nucleic Acids stains for Cells studies[]

Related products lines

● **DNA quantitation solutions**[]:	BD102b&a
IMAplate - **DNA dosage** by UV with 0,1-0,5µl sample	BA361p, FT-DR9611
AccuBlue & **AccuClear** dsDNA quantification Assays, and **AccuLite** Fluorometers, for Superior Sensitivity and Broad Range dsDNA Quantitation: **AccuBlue & AccuClear DNA Quantification Assays**(PH), i.e. AccuClear dsDNA assay(0.03ng sens.) LV4880 ; All	BD102b SHBTMk, SHBTMj cata.p.E63-65
RNAse & DNAse testing See below	
● **DNA stains for PCR**[]:	
Evagreen – Non-mutagenic, non-cytotoxic and safe with on-demand-release feature	()
● **Nucleic Acids stains for Cell studies**[]:	
FluoProbes **DNA/RNA stains**: Ethidium based (e.g. EtBr III) [cat p.G26-29(fr)], Minor rift stains (e.g. DAPI) [cat p.G30(fr)], RedDot, DMAO, DRAQ5, MycLight, LCS1, Hoechst(TS, All)) [cat p.G26-29-33(fr)], Differential stain (e.g.Acridine)[cat p.G34(fr)], Mitochondria DNA [cat p.G35-37(fr)], PMA, Hoechst DNA stains (FT-61248A; for ex. Hoechst 33258; All Hoechst)	BD102b
● **Nucleic Acids Extraction reagents**[]	
RiboZol **RNA Extraction** Reagent & kits - Ribozol basic Kit: DU1291, 100ml	()
● **Transfection reagents**[]	
UptiFectinON&OFF DNAtransfection & RNAi silencing reagents	()

● Other Products HighLights - Overview[]

Information inquire

Reply by Fax : +33 (0) 4 70 03 82 60 or email at interbiotech@interchim.com

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