

pDRIVE5s-mROSA

A plasmid with the native mouse ROSA promoter

Catalog # pDRIVE5s-mrosa

For research use only

Version # 11J11-MM

PRODUCT INFORMATION

Content:

- 1 disk of lyophilized GT116 *E. coli* bacteria transformed by a pDRIVE5s plasmid.
- GT116 genotype is: *F*-, *mcrA*, Δ (*mrr-hsdRMS-mcrBC*), Δ 80*lacZ* Δ M15, Δ *lacX74*, *rspL* (*StrA*), *recA1*, *endA1* Δ *dcm* Δ *sbcC-sbcD*.
- 4 pouches of *E. coli* Fast-Media® Zeo (2 TB and 2 Agar).

Shipping and storage:

- Products are shipped at room temperature.
- Transformed bacteria should be stored at -20°C. Bacteria are stable up to one year when properly stored.
- Store *E. coli* Fast-Media® Zeo at room temperature. Fast-Media® pouches are stable 18 months when stored properly.

Quality control:

- Plasmid construct has been confirmed by restriction analysis and sequencing.
- Bacteria have been lyophilized, and their viability upon resuspension has been verified.

GENERAL PRODUCT USE

pDRIVE5s is an expression plasmid containing a native or composite promoter of interest. pDRIVE5s may be used to:

- **Subclone a promoter of interest into another vector.** Unique restriction sites are present at each end of the promoter allowing convenient excision. The 5' site is *Sda* I. *Sda* I is compatible with *Nsi* I and *Pst* I. The 3' restriction site is *Bsp*H I. *Bsp*H I is compatible with *Nco* I and *Bsp*LU11 I.
- **Compare the activity of different promoters** in transient transfection experiments. Each pDRIVE5s promoter drives the expression of the SEAP reporter gene which allows for testing of the promoter's activity in transient transfection experiments. Furthermore, the SEAP gene is flanked by unique restriction sites (*Bsp* HI and *Nhe* I) for easy replacement with a different gene of interest.

PROMOTER CHARACTERISTICS

Mouse ROSA promoter

Complete promoter size: 1926 bp
Specificity: Ubiquitous

The ROSA26 promoter, initially identified by random retroviral gene trapping in mouse embryonic stem cells¹, directs expression of reporter² and recombinase genes³ in all cells throughout embryonic development and in adult tissues. This TATA-less promoter is very effective in vitro in a very broad range of mammalian cell lines. The strength of the ROSA26 promoter is ascribed to the 10 potential Sp1 sites found within the CpG island extending from the proximal promoter to the first half of intron 1, the highest number of Sp1 sites ever recorded in any natural promoter.

1. Zambrowicz BP. *et al.* 1997. Disruption of overlapping transcripts in the ROSA beta geo 26 gene trap strain leads to widespread expression of beta-galactosidase in mouse embryos and hematopoietic cells. *Proc Natl Acad Sci USA*. 94:3789-94.
2. Kisseberth WC. *et al.* 1999. Ubiquitous expression of marker transgenes in mice and rats. *Dev Biol*. 214:128-38.
3. Farley FW. *et al.* 2000. Widespread recombinase expression using FLPeR (Flipper) mice. *Genesis*. 28:106-10.

PLASMID FEATURES

- **SEAP gene** encodes an engineered secreted embryonic alkaline phosphatase. The levels of SEAP in the culture medium of transfected cells expressing the reporter gene can be assayed with chromogenic or luminescent methods
 - **SV40 pAn:** The Simian Virus 40 late polyadenylation signal enables efficient cleavage and polyadenylation reactions resulting in high levels of steady-state mRNA.
 - **pMB1 Ori** is a minimal *E. coli* origin of replication with the same activity as the longer Ori.
 - **EM2K** is a bacterial promoter that enables the constitutive expression of the antibiotic resistance gene in *E. coli*.
 - **Zeo** gene confers Zeocin™ resistance therefore allowing the selection of transformed *E. coli* carrying a pDRIVE5s plasmid.
- Note:** Stable transfection of clones cannot be performed due to the absence of an eukaryotic promoter upstream of the *Sh ble* gene.

METHODS

Growth of pDRIVE5s-transformed bacteria:

Use sterile conditions to do the following:

- 1- Resuspend the lyophilized *E. coli* by adding 1 ml of LB medium in the tube containing the disk. Let sit for 5 minutes. Mix gently by inverting the tube several times.
- 2- Streak bacteria taken from this suspension on a zeocin LB agar plate prepared with the *E. coli* Fast-Media® Zeo agar provided (see below).
- 3- Place the plate in an incubator at 37°C overnight.
- 4- Isolate a single colony and grow the bacteria in TB supplemented with Zeocin™ using the Fast-Media® Zeo liquid provided (see below).
- 5- Extract the pDRIVE5s plasmid DNA using the method of your choice.

Selection of bacteria with *E. coli* Fast-Media Zeo:

E. coli Fast-Media® Zeo is a **new, fast and convenient** way to prepare liquid and solid media for bacterial culture by using only a microwave. *E. coli* Fast-Media® Zeo is a TB (liquid) or LB (solid) based medium with Zeocin™, and contains stabilizers.

E. coli Fast-Media® Zeo can be ordered separately (catalog code fas-zn-l, fas-zn-s).

Method:

- 1- Pour the contents of a pouch into a clean borosilicate glass bottle or flask.
- 2- Add 200 ml of distilled water to the flask
- 3- Heat in a microwave on MEDIUM power setting (about 400Watts), until bubbles start appearing (approximately 3 minutes). **Do not heat a closed container. Do not autoclave Fast-Media®.**
- 4- Swirl gently to mix the preparation. **Be careful, the bottle and media are hot, use heatproof pads or gloves and care when handling.**
- 5- Reheat the media for 30 seconds and gently swirl again. Repeat as necessary to completely dissolve the powder into solution. But be careful to avoid overboiling and volume loss.
- 6- Let agar medium cool to 45°C before pouring plates. Let liquid media cool to 37°C before seeding bacteria.

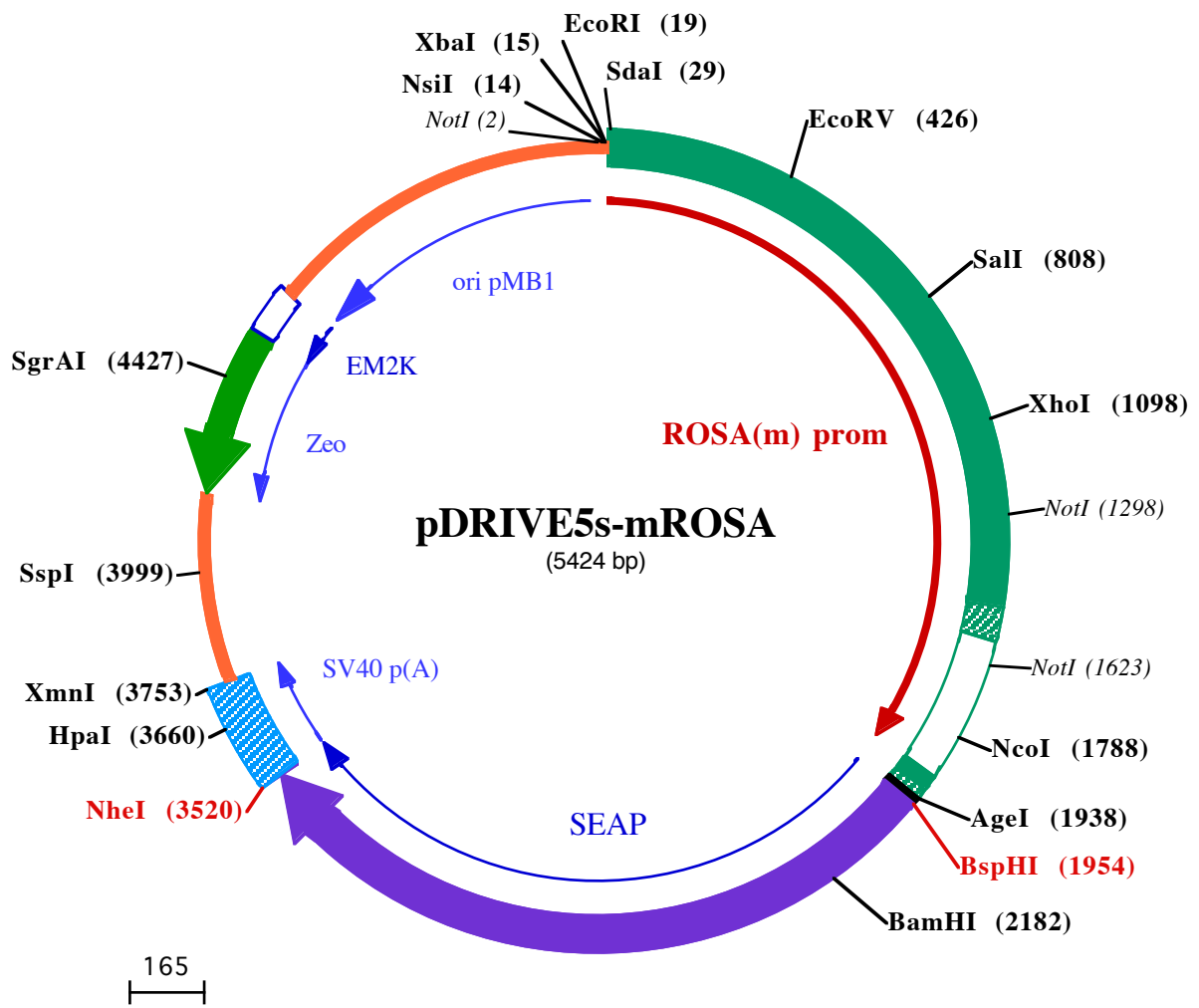
Note: Do not reheat solidified Fast-Media® as the antibiotic will be permanently destroyed by the procedure.

TECHNICAL SUPPORT

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XbaI (15) SdaI (29)

NotI (2) **NsiI (14) EcoRI (19)**

1 **GCGGCCGCTATGCATCTAGAATTCCTGCAGGTGAAGACGTTACACAAGTAACATGAGAAAAGCAGAAAATGCAGGTCATC**
80 **CACGCACCCCTGACCCAGGCCAGCAGGGCGGGCTGCAGCATCAGTACACAGGAGAAAGATCCTTATTCTTAAGAATGAG**
159 **AAAGGCAAAGGCGCCCGATAGAATAAATTAGCATAGAAGGGGCTTTCCAGGAGTTAAAACCTTCTTCTGAGCGATTA**
238 **CCTACTAAAACCAGGGCTTTTGCCCACTACCATTTACCTAGGATCTTGGCTTGCACGGATTCATAGGGGCATATCCCTC**
317 **CCCCTCTTCTTTAGAGTCGTTCTTAAAGATCGCTCTCCACGCCCTAGGCAGGGAAAACGACAAAATCTGGCTCAATTC**

EcoRV (426)

396 **CAGGCTAGAACCTACAAATTCAACAGGGATATCGCAAGGATACTGGGGCATAACCCACAGGGAGTCCAAGAATGTGAG**
475 **GTGGGGGTGGCGAAGGTAATGTCTTTGGTGTGGGAAAAGCAGCAGCCATCTGAGATAGGAACTGGAAAACCAGAGGAGA**
554 **GGCGTTCAGGAAGATTATGGAGGGGAGGACTGGGCCCCACGAGCGACCAGAGTTGTCACAAGGCCGCAAGAACAGGGG**
633 **AGGTGGGGGGCTCAGGGACAGAAAAAAAAGTATGTGTATTTTGGAGCAGGGTTGGGAGGCCTCTCTGAAAAGGGTAT**
712 **AAACGTGGAGTAGGCAATACCCAGGCCAAAAGGGGAGACCAGAGTAGGGGGAGGGGAAGAGTCTGACCCAGGGGAAGAC**

SaII (808)

791 **ATTAAAAAGGTAGTGGGGTGCAGTACTAGATGAAGGAGAGCCTTTCTCTCTGGGCAAGAGCGGTGCAATGGTGTGTAAGGT**
870 **AGCTGAGAAGACGAAAAGGGCAAGCATCTTCTGCTACCAGGCTGGGGAGGCCAGGCCACGACCCCGAGGAGAGGGA**
949 **ACGCAGGGAGACTGAGGTGACCCTTCTTTCCCCCGGGGCCGGTCTGTGTGGTTTCGGTGTCTTTTTCTGTTGGACCCTT**

XhoI (1098)

1028 **ACCTTGACCCAGGCGCTGCCGGGGCTGGGCCCGGGCTGCGGCGCACGGCACTCCCGGGAGGCAGCGAGACTCGAGTTA**
1107 **GGCCCAACGCGGCGCCACGGCGTTTCTGCGCGGAATGGCCCGTACCCGTGAGGTGGGGGTGGGGGGCAGAAAAGGCG**
1186 **GAGCGAGCCCAGGCGGGGAGGGGGAGGGCCAGGGGCGGAGGGGGCCGGCACTACTGTGTTGGCGGACTGGCGGGACTA**

NotI (1298)

1265 **GGGCTGCGTGAGTCTCTGAGCGCAGGCGGGCGGCGGCCGCCCTCCCCGGCGGCGGCAGCGGGCGGACGCGGGCAGC**
1344 **TCACTCAGCCCGCTGCCCGAGCGGAAACGCCACTGACCGCACGGGATTCCAGTGCCGGCGCCAGGGGCACGCGGGAC**
1423 **ACGCCCTCCCGCCGCGCCATTGGCCTCTCCGCCACCGCCCCACACTTATTGGCCGGTGCGCCGCAATCAGCGGGAG**
1502 **GCTGCCGGGGCCGCTAAAGAAGAGGCTGTGCTTTGGGGCTCCGGCTCCTCAGAGAGCCTCGGCTAGgtaggggatcgg**

NotI (1623)

1581 **gactctggcgggagggcggttgggtgcgtttgcggggatgggcggccgagcggcctccgagcgtggtagccggt**
1660 **ctgtgagacagccgggtacgagtcgtgacgctggaaggggcaagcgggtggtaggaggaatgcggtccgcccctgcagc**

NotI (1788)

1739 **aaccggagggggaggggagaagggagcggaaaagtctccaccggacgcggccatggctcggggggggggggcagcggag**
1818 **gagcgttccggccgacgtctcgtcgctgattggcttcttttctcccgccgtgtgtgaaaacacaattgtactaac**

AgeI (1938)

BspHI (1954)

1895 **cttcttctctttctctctctgacagGTGTGAAACAGGAAGAGAACCGGTAGGAGGGCCATCATGATTCTGGGGCC**
1970 **CTGCATGCTGCTGCTGCTGCTGCTGGGCCTGAGGCTACAGCTCTCCCTGGGCATCATCCAGTTGAGGAGGAGAAAC**
2049 **CCGGAATTCTGGAACCGCGAGGCAGCCGAGGCCCTGGGTGCCCGCAAGAAGCTGCAGCCTGCACAGACAGCCCGCAAGA**
321 **P D F W N R F A A F A I G A A K K I O P A O T A A K**

BamHI (2182)

2128 ACCTCATCATCTTCTGGGCGATGGGATGGGGGTGTCTACGGTGACAGCTGCCAGGATCCTAAAAGGGCAGAAGAAGGA
 58▶ N L I I F L G D G M G V S T V T A A R I L K G Q K K D
 2207 CAAACTGGGGCCTGAGATACCCCTGGCTATGGACCGCTTCCCATATGTGGCTCTGTCCAAGACATACAATGTAGACAAA
 84▶ K L G P E I P L A M D R F P Y V A L S K T Y N V D K
 2286 CATGTGCCAGACAGTGGAGCCACAGCCACGGCCTACCTGTGCGGGTCAAGGGCAACTTCCAGACCATTGGCTTGAGTG
 111▶ H V P D S G A T A T A Y L C G V K G N F Q T I G L S
 2365 CAGCCGCCCCGCTTTAACAGTGAACACGACACGCGGCAACGAGGTATCTCCGTGATGAATCGGGCCAAGAAAAGCAGG
 137▶ A A A R F N Q C N T T R G N E V I S V M N R A K K A G
 2444 GAAGTCAGTGGGAGTGGTAACCACCACACGAGTGCAGCACGCCTCGCCAGCCGGCACCTACGCCACACGGTGAACCCG
 163▶ K S V G V V T T T R V Q H A S P A G T Y A H T V N R
 2523 AACTGGTACTCGGACGCCGACGTGCCTGCCTCGGCCCGCAGGAGGGGTGCCAGGACATCGCTACGCAGCTCATCTCCA
 190▶ N W Y S D A D V P A S A R Q E G C Q D I A T Q L I S
 2602 ACATGGACATTGATGTGATCCTGGGTGGAGGCCGAAAGTACATGTTTCGCATGGGAACCCAGACCCTGAGTACCCAGA
 216▶ N M D I D V I L G G G R K Y M F R M G T P D P E Y P D
 2681 TGACTACAGCCAAGTGGGACCAGGCTGGACGGGAAGAATCTGGTGCAGGAATGGCTGGCGAAGCGCCAGGGTGCCCCG
 242▶ D Y S Q G G T R L D G K N L V Q E W L A K R Q G A R
 2760 TATGTGTGGAACCGCACTGAGCTCATGCAGGCTTCCCTGGACCCGTCTGTGACCCATCTCATGGGTCTCTTTGAGCCTG
 269▶ Y V W N R T E L M Q A S L D P S V T H L M G L F E P
 2839 GAGACATGAAATACGAGATCCACCGAGACTCCACACTGGACCCCTCCTGATGGAGATGACAGAGGCTGCCCTGCGCCT
 295▶ G D M K Y E I H R D S T L D P S L M E M T E A A L R L
 2918 GCTGAGCAGGAACCCCGCGGCTTCTTCTCTTCTGAGGGTGGTGCATCGACCACGGTATCACGAAAGCAGGGCT
 321▶ L S R N P R G F F L F V E G G R I D H G H H E S R A
 2997 TACCGGGCACTGACTGAGACGATCATGTTTCGACGACGCCATTGAGAGGGCGGGCCAGCTCACCAGCGAGGAGGACACG
 348▶ Y R A L T E T I M F D D A I E R A G Q L T S E E D T
 3076 TGAGCCTCGTCACTGCCGACCACTCCCACGTCTTCTCCTTCGAGGGTACCCCTGCGAGGGAGCTCCATCTTCGGGCT
 374▶ L S L V T A D H S H V F S F G G Y P L R G S S I F G L
 3155 GGCCCTGGCAAGGCCCGGGACAGGAAGGCCTACACGGTCTCCTATACGAAACGGTCCAGGCTATGTGCTCAAGGAC
 400▶ A P G K A R D R K A Y T V L L Y G N G P G Y V L K D
 3234 GCGCCCGGCCGGATGTTACCGAGAGCGAGAGCGGGAGCCCCGAGTATCGGCAGCAGTCAGCAGTGCCCTGGACGAAG
 427▶ G A R P D V T E S E S G S P E Y R Q Q S A V P L D E
 3313 AGACCCACGCAGGCGAGGACGTGGCGGTGTTTCGCGCGCGGCCCGCAGGGCGACCTGGTTCACGGCGTGCAGGAGCAGAC
 453▶ E T H A G E D V A V F A R G P Q A H L V H G V Q E Q T
 3392 CTTTCATAGCGCACGTATGGCCTTCGCCGCTGCCTGGAGCCCTACACCGCTGCGACCTGGCGCCCCCGCCGGCACC
 479▶ F I A H V M A F A A C L E P Y T A C D L A P P A G T

NheI (3520)

3471 ACCGACGCCGCGCACCCGGGGCGGTCCCGGTCCAAGCGTCTGGATTGAAGCTAGCTGGCCAGACATGATAAGATACATT
 506▶ T D A A H P G R S R S K R L D •
 3550 GATGAGTTTGGACAAACCACAACACTAGAATGCAGTGAAAAAATGCTTTATTTGTGAAATTTGTGATGCTATTGCTTTAT

HpaI (3660)

3629 TTGTAACCATTATAAGCTGCAATAAACAAGTTAACAACAACAATTGCATTCATTTTTATGTTTCAGGTTTCAGGGGGAGGT

XmnI (3753)

3708 GTGGGAGGTTTTTTAAAGCAAGTAAAACCTCTACAAATGTGGTATGGAATTAATTTCTAAAATACAGCATAGCAAAACTT
 3787 TAACCTCCAAATCAAGCCTCTACTTGAATCCTTTTTCTGAGGGATGAATAAGGCATAGGCATCAGGGGCTGTTGCCAATG
 3866 TGCATTAGCTGTTTGCAGCCTCACCTTCTTTCATGGAGTTTAAGATATAGTGATTTTTCCCAAGGTTTGAAC TAGCTCT

SspI (3999)

3945 TCATTTCTTTATGTTTTAAATGCACTGACCTCCACATTCCCTTTTTAGTAAAAATATTAGAAAATAATTTAAATACATC
 4024 ATTGCAATGAAAATAAATGTTTTTTATTAGGCAGAATCCAGATGCTCAAGGCCCTTCATAATATCCCCAGTTTAGTAG
 4103 TTGGACTTAGGGAACAAAGGAACCTTTAATAGAAATTGGACAGCAAGAAAGCGAGCTTCTAGCTTATCCTCAGTCTGCG
 1254 • D Q
 4182 TCCTCTGCCACAAAGTGCACGCAGTTGCCGGCCGGGTGCGCAGGGCGAACTCCCGCCCCACGGCTGCTCGCCGATCT
 121▶ E E A V F H V C N G A P D R L A F E R G W P Q E G I E
 4261 CGGTATGGCCGGCCCGGAGGCGTCCCGGAAGTTCGTGGACACGACCTCCGACCACTCGGCGTACAGCTCGTCCAGGCC
 95▶ T M A P G S A D R F N T S V V E S W E A Y L E D L G
 4340 GCGACCCACACCCAGGCCAGGGTGTGTCCGGCACCACCTGGTCTGACCGCGCTGATGAACAGGGTACGTCGTC
 69▶ R V W V W A L T N D P V V Q D Q V A S I F L T V D D

SgrAI (4427)

4419 CGGACCACACCGGCGAAGTCTGCTCCACGAAGTCCCGGAGAACC CGAGCCGGTCCGTTCCAGAACTCGACCGCTCCGG
 42▶ R V V G A F D D E V F D R S F G L R D T W F E V A G A
 4498 CGACGTCGCGCGGGTGGACCCGGAACGGCACTGGTCAACTTGGCCATGATGGCTCCTCCTGTGACGAGAGGAAAGAG
 16▶ V D R A T I V P V A S T I K A M ←

4577 AAGAAGTTAGTACAATTGCTATAGTGAGTTGTATTATACTATGCAGATATACTATGCCAATGATTAATTGTCAAACTA
4656 GGGCTGCAGGTTAATTAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCG
4735 TTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGAC
4814 TATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCT
4893 GTCCGCCTTTCTCCCTTCGGAAGCGTGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTT
4972 CGCTCCAAGCTGGGCTGTGTGCACGAACCCCCGTTAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGT
5051 CCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGG
5130 TGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAG
5209 CCAGTTACCTTCGGAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTTGTTT
5288 GCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCTGACGCTCAGTG
5367 GAACGAAAACTACGTTAAGGGATTTTGGTCATGGCTAGTTAATTAACATTTAAATCA

Fast-Media®

Microwaveable media for selection and propagation of *E. coli* transformants

Catalog # fas-xx-l, fas-xx-s, fas-xx-xgal

For research use only

Version # 10G07-MM

PRODUCT INFORMATION

Contents:

E. coli **Fast-Media**® are prepared as individual sealed pouches containing the necessary amount of powder for preparation of 200 ml of selective liquid or agar medium.

30 pouches are supplied for each order of TB or Agar and 20 pouches are supplied for each order of XGal Agar.

Storage and stability:

Fast-Media® are shipped at room temperature, and must be stored in a dry and cool place. They are stable for 2 years at room temperature.

When properly prepared, **Fast-Media**® plates or broths are stable for 4 weeks at 4°C, and remain sterile and selective.

Quality control:

The high quality and performance of each formulation has been tested with some widely used and proprietary *E. coli* K12 derived strains*. These include DH5α, Top10, MC1061, XL1 blue, JM 109, TB1, GT100, GT110, GT115, GT116.

The adequate plasmids carrying the appropriate *E. coli* resistance genes are used as positive control.

**E. coli* recipient strains carrying the Tn5 transposon are resistant to Kanamycin and Zeocin™.

GENERAL PRODUCT USE

E. coli **Fast-Media**® are microwaveable ready-to-use solid or liquid media, supplied with a selective antibiotic, and chromogenic substrates (for five references), therefore designed for the growth or selection of *E. coli* transformant colonies, as well as detection of blue/white colonies.

- **Fast-Media**® Agar formulation is LB based agar medium supplemented with selective antibiotic, it is used for selection of resistant *E. coli* colonies after transformation by vectors carrying a selection resistance gene.

- **Fast-Media**® X-Gal formulation is a LB based agar medium supplemented with selective antibiotic, X-Gal and IPTG. It is used for detection of blue/white resistant colonies after transformation by a vector carrying *LacZ* gene.

- **Fast-Media**® TB formulation is a Terrific Broth based liquid medium supplemented with selective antibiotic. It's used for high cell density culture of transformed bacteria, and extraction of high quantity and quality of required plasmid.

FAST-MEDIA® FEATURES

E. coli **Fast-Media**® offer researchers a quick and convenient way to prepare 200 ml of liquid culture medium, or 8-10 agar plates in about five minutes USING A MICROWAVE INSTEAD OF AN AUTOCLAVE.

E. coli **Fast-Media**® are available with a large variety of prokaryotic selective agents including Ampicillin, Blastidicin S, Hygromycin B, Kanamycin, Puromycin and Zeocin™ (see table below). **Fast-Media**® is also available with no selective agent (Base) that can be prepared with or without antibiotics.

	Agar	X-Gal	TB
Base	√		√
Ampicillin	√	√	√
Blastidicin	√	√	√
Hygromycin	√	√	√
Kanamycin	√	√	√
Puromycin	√		√
Zeocin™	√	√	√

SPECIAL HANDLING

Caution should be exercised during handling of **Fast-Media**® due to potential allergenic properties of antibiotics. Wear protective gloves, do not breath the dust.

METHOD

For customer convenience, procedure is directly printed on each pouch.

- 1- Pour the pouch contents into a clean borosilicate glass bottle or flask.
- 2- Add 200 ml of distilled or deionized water.
- 3- Mix thoroughly by swirling the glass bottle or flask.
- 4- Heat in a microwave oven on MEDIUM power setting (about 450W) until bubbles start to appear (about 3 minutes).

Do not heat in a closed container.

5- Swirl gently to mix the preparation and re-heat for 30 seconds. Swirl gently again.

6- Repeat step 4 if necessary until the medium is completely dissolved. Do not overboil.

7- Allow the medium to cool to 50-55 °C, use directly for liquid medium, or pour plates for solid medium.

Caution: Any solution heated in a microwave oven may become superheated and suddenly boil when moved or touched. Handle with extreme care. Wear heat-proof gloves.

Note: Do not repeat this above procedure once the medium is prepared because the antibiotic will be adversely affected.

For preparation of supplemented **Fast-Media**® Base.

- Follow the instructions above and when media has cooled to 50-55 °C add the antibiotic at the appropriate concentration for selection of *E. coli*.

TECHNICAL SUPPORT

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