

# pINFUSE-hIgG4-Fc2

Plasmid designed for the construction of Fc-Fusion proteins

Catalog # pfc2-hgin4

For research use only

Version # 08C12-SV

## PRODUCT INFORMATION

### Content:

- 20 µg of pINFUSE-hIgG4-Fc2 plasmid provided as lyophilized DNA.
- 4 pouches of *E. coli* Fast-Media® Zeo (2 TB and 2 Agar)

### Storage and Stability:

- Product is shipped at room temperature.
- Lyophilized DNA should be stored at -20°C and is stable 3 months.
- Resuspended DNA should be stored at -20°C and is stable up to 1 year.
- 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.
- Plasmid DNA was purified by ion exchange chromatography and lyophilized.

## GENERAL PRODUCT USE

pINFUSE-Fc is a family of plasmid developed to facilitate the construction of Fc-fusion proteins by fusing the effector region of a protein to the Fc region of an immunoglobulin G (IgG). pINFUSE-Fc plasmids yield high levels of Fc-fusion proteins. The level of expression is usually in the µg/mL range. They can be transfected in a variety of mammalian cells, including myeloma cell lines, CHO cells, monkey COS cells and human embryonic kidney (HEK)293 cells, cells that are commonly used in protein purification systems.

pINFUSE-Fc plasmids allow the secretion of Fc-Fusion proteins. As Fc-Fusion proteins are secreted, they can be easily detected in the supernatant of pINFUSE-Fc-transfected cells by SDS-PAGE. Furthermore, functional domains can be identified by immunoblotting and ligand blotting.

Fc-Fusion proteins can be easily purified by single-step protein A or protein G affinity chromatography.

InvivoGen provides pINFUSE-Fc vectors featuring Fc regions containing introns from different species and isotypes. In humans, there are four isotypes: IgG1, IgG2, IgG3 and IgG4. The Fc region mediates effector functions, such as antibody-dependent cellular cytotoxicity (ADCC) and complement-dependent cytotoxicity (CDC). IgG isoforms exert different levels of effector functions increasing in the order of IgG4<IgG2<IgG1≤IgG3.

## PLASMID FEATURES

- **human genomic IgG4-Fc (with introns):** The Fc region comprises the CH2 and CH3 domains of the IgG heavy chain and the hinge region. The hinge serves as a flexible spacer between the two parts of the Fc-fusion protein, allowing each part of the molecule to function independently. A short intron is present between each region (one intron between the hinge and CH2 and one intron between CH2 and CH3). The presence of introns is known to enhance the level of gene expression as splicing is known to promote rapid and efficient mRNA export<sup>1</sup>. Human IgG4 displays low ADCC and CDC.
- **hEF1-HTLV prom** is a composite promoter comprising the Elongation Factor-1α (EF-1α) core promoter<sup>2</sup> and the R segment and part of the U5 sequence (R-U5') of the Human T-Cell Leukemia Virus (HTLV) Type 1 Long Terminal Repeat<sup>3</sup>. The EF-1α promoter exhibits a strong activity and yields long lasting expression of a transgene *in vivo*. The R-U5' has been coupled to the EF-1α core promoter to enhance stability of RNA.
- **IL2 ss:** The IL2 signal sequence contains 20 amino acids and share common characteristics with signal peptides of other secretory proteins. The intracellular cleavage of the IL2 signal peptide occurs after Ser20 and leads to the secretion of the antigenic protein.
- **MCS:** The multiple cloning site contains several restriction sites that are compatible with many other enzymes, thus facilitating cloning.
- **SV40 pAn:** the Simian Virus 40 late polyadenylation signal enables efficient cleavage and polyadenylation reactions resulting in high levels of steady-state mRNA<sup>4</sup>.
- **ori:** a minimal *E. coli* origin of replication to limit vector size, but with the same activity as the longer Ori.
- **CMV enh / hFerL prom:** This composite promoter combines the human cytomegalovirus immediate-early gene 1 enhancer and the core promoter of the human ferritin light chain gene. This ubiquitous promoter drives the expression of the Zeocin™-resistance gene in mammalian cells.
- **EM2KC** is a bacterial promoter that enables the constitutive expression of the antibiotic resistance gene in *E. coli*. EM2KC is located within an intron and is spliced out in mammalian cells.
- **Zeo:** Resistance to Zeocin™ is conferred by the *Sh ble* gene from *Streptomyces hindustanus*. The same resistance gene confers selection in both mammalian cells and *E. coli*.
- **βGlo pAn:** The human beta-globin 3'UTR and polyadenylation sequence allows efficient arrest of the transgene transcription<sup>5</sup>.

## TECHNICAL SUPPORT

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## METHODS

### **Plasmid resuspension:**

Quickly spin the tube containing the lyophilized plasmid to pellet the DNA. To obtain a plasmid solution at 1  $\mu$ g/ $\mu$ l, resuspend the DNA in 20  $\mu$ l of sterile H<sub>2</sub>O. Store resuspended plasmid at -20°C.

### **Selection of bacteria with *E. coli* Fast-Media®**

Fast-Media® is a **fast and convenient** way to prepare liquid and solid media for bacterial culture by using only a microwave. Fast-Media® is a TB (liquid) or LB (solid) based medium that already contains the antibiotic. Fast-Media® Zeo is available separately: #fas-zn-l (liquid), #fas-zn-s (agar).

- 1- Pour the contents of a Fast-Media® 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.

### **References:**

1. Nott A, et al. 2003. A quantitative analysis of intron effects on mammalian gene expression. RNA. 9(5):607-17.
2. Kim DW et al. 1990. Use of the human elongation factor 1 alpha promoter as a versatile and efficient expression system. 91(2):217-23.
3. Takebe Y, et al. 1988. SR alpha promoter: an efficient and versatile mammalian cDNA expression system composed of the simian virus 40 early promoter and the R-U5 segment of human T-cell leukemia virus type 1 long terminal repeat. Mol Cell Biol. 8(1):466-72.
4. Carswell S. & Alwine JC. 1989. Efficiency of utilization of the simian virus 40 late polyadenylation site: effects of upstream sequences. Mol Cell Biol. 9(10):4248-58.
5. Yu J. & Russell JE. 2001. Structural and functional analysis of an mRNP complex that mediates the high stability of human beta-globin mRNA. Mol Cell Biol. 21(17):5879-88.

## RELATED PRODUCTS

Product	Catalog Code
Zeocin™	ant-zn-1
Fast-Media® Zeo TB	fas-zn-l
Fast-Media® Zeo Agar	fas-zn-s

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### **TECHNICAL SUPPORT**

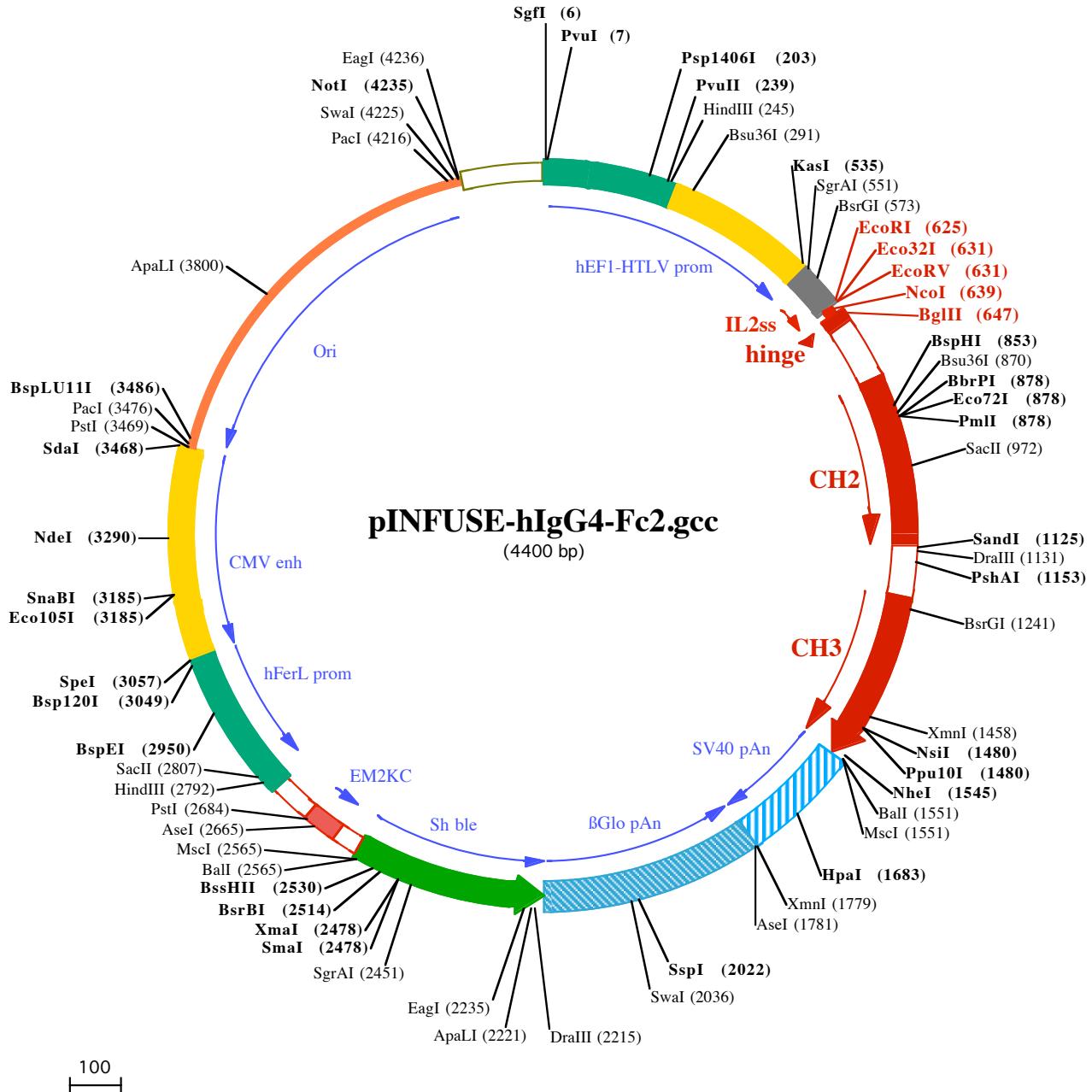
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**PvuI (7)**  
**SgfI (6)**  
 1 **GGATCTCGCATCGTCCGGTCCCAGTGGCAGAGGCACATGCCACAGTCCCAGAAGTTGGGGGAGGGTCGCAATTGAACGGTGCTAG**

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102 **AGAAAGTGGCGGGGTAAACTGGAAAGTGTCTGACTGGCTCGCTTTCCCGAGGGTGGGGAGAACGTTATAAGTCAGTAGTCGGCTG**

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**HindIII (245)**  
**Psp1406I (203)**  
 203 **GAACGTTCTTTCGCAACGGTTGCCGCCAGAACACAGCTGAAGCTCGAGGGGCTCGATCTCTCCACCGCCGCCTACCTGAGGCCGCC**

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304 **ATCCACGCCGGTGGAGTCGCTCTGCCCTCCGCCTGTTGCTCTGAAGTCGCTCGCCGTAGGTAAGTTAAAGCTCAGTCAGACCAGGGC**

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405 **CTTGTCCGGCGCTCCCTGGAGCCTACCTAGACTCAGCCGGCTCCACGCTTGCTGACCCCTGCTCAACTCTACGTCTTGTCTGTTCTG**

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**KasI (535)**      **SgrAI (551)**      **BsrGI (573)**  
 506 **TCTGGCCGTTACAGATCCAAGCTGACCGGGCGCTACCTAGATCAGGAGATCACCGGGAAGGAGGGCACCATGTACAGGATGCAACTCTGCTTGCATTGCAC**  
 1► Met Tyr Arg Met Gl n Leu Leu Ser Cys I I e Al a L

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**EcoRV (631)**  
**Eco32I (631)**      **BglII (647)**  
**EcoRI (625)**      **NcoI (639)**  
 607 **TAAGTCTTCACTTGTCACTGAAATTGATATCGGCCATGGTTAGATCTCCCCATGCCCATGCCCCAGgtaaagccaaaccaggcctggccctccagccta**  
 12► eu Ser Leu Al a Leu Val Thr Asn Ser      1► Pro Pro Cys Pro Ser Cys Pro  
 708 **aggccggacaggtaggtagactgcataccaggacaggccccaggcccgggtgtgacgcatccacccttatctttcttcagCACCTGAGTTCTGG**  
 1► Pro Gl u Phe Leu G

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**BspHI (853)**      **Bsr36I (870)**  
**PmlI (878)**  
**Eco72I (878)**  
**BbrPI (878)**

809 **GGGGACCATCAGTCTCTGTTCCCCAAAACCAAGGACACTCTCATGATCTCCGGACCCCTGAGGTACCGTGGCTGGTGGACGTGAGCCAGGAA**  
 5► ly Gl y Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met l I e Ser Arg Thr Pro Gl u Val Thr Cys Val V a l Val Asp Val Ser Gl n Gl u

SacII (972)

910 **GACCCCAGGGTCCAGTCACTGGTACGTGGATGGCGTGGAGGTGCATAATGCCAGAACAGCAGGGCGGGAGGAGCAGTCAACAGCACGTACCGTGTGGT**  
 39► Asp Pro Gl u Val Gl n Phe Asn Trp Tyr Val Asp Gl y Val Gl u Val Hi s Asn Al a Lys Thr Lys Pro Arg Gl u Gl u Gl n Phe Asn Ser Th r Tyr Arg Val V a

1011 **CAGCGTCCTCACCGTCTGACCCAGGACTGGCTGAACGGAAGGAGTACAAGTGCAAGGTCTCAAACAAAGGCCCTCCGTCCATGAGAAAACCATCT**  
 72► I Ser Val Leu Thr Val Leu Hi s Gl n Asp Trp Leu Asn Gl y Lys Gl u Tyr Lys Cys Lys Val Ser Asn Lys Gl y Leu Pro Ser Ser I I e Gl u Lys Thr I I e S

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**DraIII (1131)**  
**SandI (1125)**      **PshAI (1153)**  
 1112 **CCAAGCCAAGGtgtggaccacgggtgcaaggccatggacagagggtcagctggcccaccctctggactgtggatgaccgtgtgccaacctctg**  
 106► er Lys Al a Lys

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**BsrGI (1241)**

1212 **tccctacagGGCAGCCCCGAGAGCCACAGGTGTACACCTGCCCCATCCAGGAGGATGACCAAGAACAGGTAGCCTGACCTGCTGGTCAAAGGC**  
 1► Gl n Pro Arg Gl u Pro Gl u Val Tyr Thr Leu Pro Pro Ser Gl n Gl u Gl u Met Thr Lys Asn Gl n Val Ser Leu Thr Cys Leu Val Lys Gl y

1313 **TTCTACCCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGCAGCGGAGAACAACTACAAGAACACGCCCTCCGTGCTGACTCCGACGGCTCCTCT**  
 31► Phe Tyr Pro Ser Asp I I e Al a Val Gl u Trp Gl u Ser Asn Gl y Gl n Pro Gl u Asn Asn Tyr Lys Thr Th r Pro Pro Val Leu Asp Ser Asp Gl y Ser Phe Ph

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**XmaI (1458)**      **Ppu10I (1480)**  
**NsiI (1480)**

1414 **CCTCTACAGCAGGCTAACCGTGGACAAGAGCAGGTGGCAGGAGGGATGCTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACACAGA**  
 64► e Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gl n Gl u Gl y Asn Val Phe Ser Cys Ser Val Met Hi s Gl u Al a Leu Hi s Asn Hi s Tyr Th r Gl n L

**MscI (1551)**  
**Ball (1551)**

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**NheI (1545)**

1515 **AGAGCCTCTCCCTGCTCCGGTAAATGAgtgCTAGCTGGCCAGACATGATAAGATACATTGATGAGTTGGACAAACACAAACTAGAATGCACTGAAAA**  
 98► ys Ser Leu Ser Leu Ser Pr o Gl y Lys •••

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**HpaI (1683)**

1615 **AAATGCTTATTTGTGAAATTGTGATGCTATTGCTTATTTGAACATTATAAGCTCAATAAACAGTTAACACAAATTGCAATTCTATTCTATTGTT**

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**AseI (1781)**  
**XmnI (1779)**

1716 **TCAGGTTCAGGGGAGGTGTGGAGGTTTTAAAGCAAGTAAACCTCTACAAATGTTGATGAAATTCTAAAATACAGCATAGCAAACACTTTAAC**

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1817 **CTCCAAATCAAGCTCTACTTGAATCCTTCTGAGGGATGAATAAGGCATAGGCATCAGGGCTTGCACATTGCTGGTCACTGCTGGTCACTGCCTCACCT**

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1918 **TCTTCATGGAGTTAACATAGTAGTGTATTCCCAAGGTTGAACTAGCTCTCATTTATGTTAACATGACTGACCTCCACATCCCTTTTA**

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**SspI (2022)**      **SwaI (2036)**  
 2019 **GTAAATATTCAAGAAATAATTAAATACATCATTGCAATGAAATAATGTTTTATTAGGCAGAATCCAGATGCTCAAGGCCCTCATATAATCCCCA**

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**DraIII (2215)**

2120 **GTTCAGTGTGGACTTAGGAACAAAGGACCTTAATAGAAATTGGACAGCAAGAAAGCGAGCTCTAGCTTATCTCAGTCCTGCTCCCTGCCACAA**  
 125► ••• Asp Gl n Gl u Gl u Al a Val Ph

ApaLI (2221)      EagI (2235)

2221 **AGTGCACCGAGTGGCGCCGGTGCAGGGCGAACCTCCGCCCCACGGCTGCTCGCGATCTGGTCATGGCGCCGGAGGCGTCCGGAGGTT**  
 117► e Hi s Val Cys Asn Gl y Al a Pro Asp Arg Leu Al a Phe Gl u Arg Gl y Trp Pro Gl n Gl u Gl y I I e Gl u Th r M e t Al a Pro Gl y Ser Al a Asp Arg Phe Asn T

2322 **GTGGACACGACCTCGACCACCTGGCGTACAGCTCGCCAGGCCGCACCCACACCAGGCCAGGGTGTGCGACCACCTGGCTGGACCGCGCT**  
 83► hr Ser Val Val Gl u Ser Trp Gl u Al a Tyr Leu Gl u Asp Leu Gl y Arg Val Trp Val Trp Al a Leu Th r Asn Asp Pro Val V a l Gl n Asp Gl n Val Al a Ser

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**XmaI (2478)**  
**SmaI (2478)**      **BsrBI (2514)**

2423 **GATGAACAGGGTCACGTCGTCCGGACCACCCGGCAAGTCGTCTCCACGAAGTCCCAGGGAGAACCGAGGCCGGTCCAGAACATCGACCGCTCCG**  
 50► I I e Phe Leu Th r Val Asp Asp Arg Val Val Gl y Al a Phe Asp Asp Gl u Val Phe Asp Arg Ser Phe Gl y Leu Arg Asp Th r Trp Phe Gl u Val Al a Gl y Al

MscI (2565)  
 BalII (2565)

2524 **CGACGTCGCGCGGGTGAACCCGGAACGGTCAACTGGTCATACTGGCT**

2625 TAGTGAGTTGTATTATACTATGCAGATATACTATGCCAATGATTAATTGTCAAACACTAGGGCTGCAGggttcatagtgcactttcctgactgccccatc  
 AseI (2665) PstI (2684)  
 2726 tcctgcccacccttccaggcatagacagtcaagtacCAAACTCACAGGAGGGAGAAGGCAGAACGCTTGAAGACAGACCCGGGGACCGCCGA  
 HindIII (2792) SacII (2807)  
 2827 CGAGGGGACGTGGCTAGGGCGCTTTATGGTGCGCCGCGCTCGGAGGCAGGGCCTCGGGAGGCCTAGCGCCAATCTCGGTGGCAGGAGGCGG  
 ←  
 2928 GGCGAAGGCCGTGCCTGACCAATCCGGAGCACATAGGAGTCTCAGCCCCCGCCCCAAAGCAAGGGAAAGTCACGCCCTGTAGGCCAGCGTGTGA  
 BspEI (2950)  
 3029 AATGGGGCTTGGGGGGTTGGGCCCTGACTAGTCAAAACAAACTCCATTGACGTCATGGGTGGAGACTTGGAAATCCCCTGAGTCAAACCGCTAT  
 SpeI (3057)  
 Bsp120I (3049)  
 ←  
 3130 CCACGCCCATTGATGTAUTGCCAAACCGCATCATGGTAATAGCGATGACTAATACGTAGATGACTGCCAAGTAGGAAAGTCCATAAGGTATGTA  
 SnaBI (3185)  
 Eco105I (3185)  
 3231 CTGGGCATAATGCCAGGCAGGCCATTACCGTCATTGACGTCATAGGGCGTACTTGCATATGATACTTGATGTAUTGCCAAGTGGCAGTTAC  
 NdeI (3290)  
 3332 GTAAATACTCCACCCATTGACGTCATGGAAAGTCCATTGGCGTTACTATGGAACATACGTATTGACGTCATGGCGGGGTCGGTGGCGGT  
 PacI (3476)  
 PstI (3469)  
 Sdai (3468) BspLU11I (3486)  
 3433 CAGCCAGGCAGGCCATTACCGTAAGTTATGTAACGCCCTGCAAGGTTAAATAGAACATGTGAGCAAAGGCCAGCAAAGGCCAGGAACCGTAAAAGGCC  
 ←  
 3534 GCCTGCTGGCTTTCCATAGGCTCCGCCCTGACGAGCATCACAAAATGACGCTCAAGTCAGAGGTGGCAGACGGACTATAAGATA  
 3635 CCAGGCCTTCCCCCTGGAAGCTCCCTGCGCTCTCTGTTCCGACCCCTGCCGCTTACCGGATACCTGTCCCTTCTCCCTCGGGAGCGTGGCGC  
 ApaLI (3800)  
 3736 TTTCTCATAGCTACGCTGTAGGTATCTCAGTCGGTAGGTCGTTCGCTCCAAGCTGGCTGTGTCAGCAACCCCCCGTTAGCCGACCGCTGC  
 3837 TTATCCGGTAACTATCGTCTTGAGTCCAACCCGTAAGACACGACTTATGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATG  
 3938 CGGTGCTACAGAGTTCTGAAGTGGGCCACTACGGCTACACTAGAACAGTATTTGGTATCTCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAA  
 4039 GAGTTGGTAGCTTGTACCGCAAACAAACCACCGCTGGTAGCGTGGTTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAA  
 ←  
 4140 GATCCTTGATTTCTACGGGCTGACGCTCAGTGGAACGAAACTCACGTTAAGGGATTTGGCATGGCTAGTTAATTAAACATTAAATCAGCGC  
 EagI (4236)  
 PacI (4216) SwaI (4225) NotI (4235)  
 4241 CGCAATAAAATCTTATTTCTTACATCTGTGTTGGTTTTGTAATCGTAACATACGCTCCATCAAACAAACGAAACAAACAA  
 4342 ACTAGCAAAATAGGCTGCCCCAGTGCAAGTGCAGGTGCCAGAACATTCTATCGAA

# 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, Blasticidin 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	✓	✓	✓
Blasticidin	✓	✓	✓
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*.

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### TECHNICAL SUPPORT

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