TRANSGEN BIOTECH

# Cell Biology

## Cell Biology Products

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# Mycoplasma

# *TransDetect*® Luciferase Mycoplasma Detection Kit (FM301)

01

- Simple & time-saving operation, performs two luminescence readings and delivers results in 20 minutes.
- High sensitivity, detecting as low as 50 CFU/ml, effectively avoiding false-negative results.
- Excellent inter-well reproducibility for more accurate result determination.

### High sensitivity

| Product / Sample / Result | Company L | | | | TransGen | | | |
|---|---|---|---|---|---|---|---|---|
| | A | B | B/A | Result | A | B | B/A | Result |
| Negative control | 462 | 371 | 0.8 | Negative | 172 | 113 | 0.66 | Negative |
| Stock solution | 400 | 50419 | 126.05 | Positive | 188 | 29177 | 155.2 | Positive |
| 8 | 360 | 33386 | 92.74 | Positive | 191 | 18283 | 95.72 | Positive |
| 64 | 403 | 9978 | 24.76 | Positive | 184 | 4714 | 25.62 | Positive |
| 512 | 398 | 5827 | 14.64 | Positive | 202 | 3081 | 15.25 | Positive |
| 4096 | 485 | 1543 | 3.18 | Positive | 186 | 776 | 4.17 | Positive |
| 32768 | 359 | 366 | 1.02 | Suspected positive | 179 | 153 | 0.86 | Suspected positive |
| 262144 | 263 | 184 | 0.7 | Negative | 181 | 107 | 0.59 | Negative |

Serially diluted positive samples were detected using reagents from TransGen and Company L. The results demonstrated comparable performance between the two products, with both detecting highly diluted positive samples.

### High accuracy

| Product / Sample / Result | Company L | | | | TransGen | | | |
|---|---|---|---|---|---|---|---|---|
| | A | B | B/A | Result | A | B | B/A | Result |
| Positive control | 198 | 19613 | 99.06 | Positive | 120 | 12460 | 103.83 | Positive |
| DMEM medium | 296 | 259 | 0.88 | Negative | 102 | 76 | 0.75 | Negative |
| 1640 medium | 423 | 324 | 0.77 | Negative | 141 | 82 | 0.58 | Negative |
| Cell culture supernatant 1 | 1524 | 379 | 0.25 | Negative | 1086 | 133 | 0.12 | Negative |
| Cell culture supernatant 2 | 742 | 286 | 0.39 | Negative | 311 | 82 | 0.26 | Negative |
| Cell culture supernatant 3 | 934 | 2670 | 24.72 | Positive | 89 | 2643 | 29.7 | Positive |
| Cell culture supernatant 4 | 1079 | 583 | 0.54 | Negative | 356 | 151 | 0.42 | Negative |
| Cell culture supernatant 5 | 745 | 388 | 0.52 | Negative | 321 | 102 | 0.32 | Negative |

Across a range of different sample types, TransGen's product demonstrated high consistency with Company L, which is considered the industry gold standard.

# *TransDetect*® PCR Mycoplasma Detection Kit (FM311)

02

This product detects the presence of mycoplasma contamination in biological materials such as cultured cells by PCR method. Highly specific primers have been designed to amplify a fragment of 16S rRNA coding DNA that is conserved across all commonly-known mycoplasma species. The kit includes an optimized supermix and primer, ultrapure water and positive control template. Using this kit, cell culture supernatants can be tested directly without DNA extraction. The kit provides a very easy-to-use, simple, fast (within 2 hours), specific and sensitive PCR-based mycoplasma detection method.

- High sensitivity: Able to detect as low as 20 copies of mycoplasma genome.
- High specificity: Only detect mycoplasma DNA, not eukaryotic or bacterial DNA.
- Easy to use: No need to extract genomic DNA, suitable for the detection of a large number of cell samples.
- Positive control and negative control to ensure the accuracy of PCR test results.


Sensitivity of mycoplasma detection by PCR

M: *Trans2K*® Plus II DNA Marker
1: 20 copies of mycoplasma DNA
2: 100 copies of mycoplasma DNA
3: 1:1000 diluted cell culture medium
4: 1:800 diluted cell culture medium
5: 1:400 diluted cell culture medium
6: 1:200 diluted cell culture medium
7: 1:100 diluted cell culture medium
8: 1:50 diluted cell culture medium
9: 1:20 diluted cell culture medium
10: 1:10 diluted cell culture medium
11: 1:5 diluted cell culture medium
12: Undiluted cell culture medium
13: Diluent
N: Negative control
P: Positive control

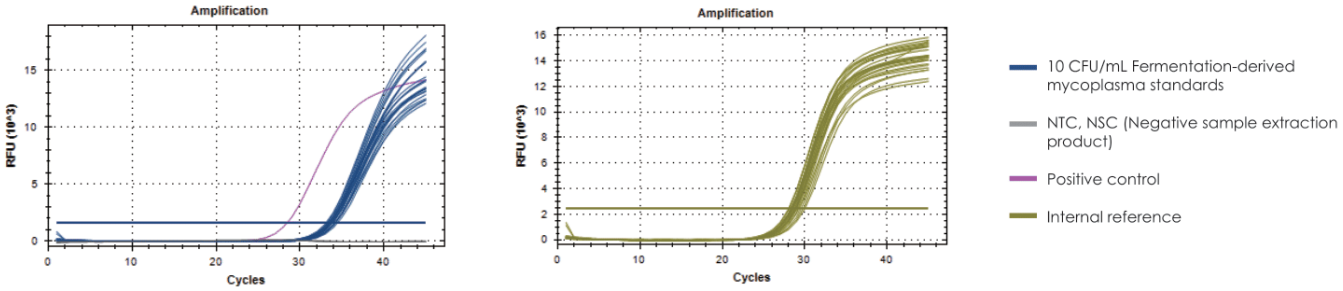
# *TransDetect*® qPCR Mycoplasma Detection Kit (FM321)

03

- Compliant with the requirements of nucleic acid amplification technology (NAT) for mycoplasma detection as stipulated in the European Pharmacopoeia (EP 2.6.7) and the Japanese Pharmacopoeia (JP G3).
- Wide coverage: Validated for the detection of 13 strains of mycoplasma and plasmid DNA, with database comparisons covering at least 129 species of mycoplasma DNA sequences.
- High sensitivity: Validated mycoplasma strains meet 95% detection requirements, with a detection limit of up to 10 CFU/mL; plasmid standards can reach 1 copy/μL.
- High specificity: No detection interference from commonly occurring bacteria or production cell genomes, among others.
- dUTP/UDG contamination prevention system: Effectively prevents contamination of PCR products, ensuring accurate data.
- High stability: Product can undergo at least 15 freeze-thaw cycles without significant impact on performance.
- Broad instrument compatibility: Compatible with mainstream qPCR instruments, ensuring consistent detection results.

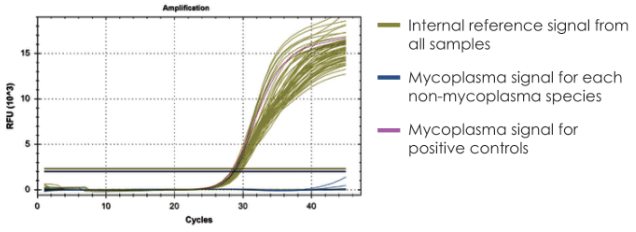
**High sensitivity, detection limit is 10 CFU/mL**

| Mycoplasma Species | 10 CFU/mL Detection Rate |
|---|---|
| Mycoplasma gallisepticum | 24/24 |
| Mycoplasma synoviae | 24/24 |
| Mycoplasma arginini | 24/24 |
| Spiroplasma citri | 24/24 |
| Mycoplasma fermentans | 24/24 |
| Acholeplasma laidlawii | 24/24 |
| Mycoplasma hyorhinis | 24/24 |
| Mycoplasma orale | 24/24 |
| Mycoplasma pneumoniae | 24/24 |
| Mycoplasma salivarium | 24/24 |




**High specificity, no cross-reaction with non-mycoplasma species**

| Prokaryotic Species | Eukaryotic Species | Prokaryotic Species |
|---|---|---|
| Escherichia coli | Pichia pastoris | Lactobacillus acidophilus |
| Mycobacterium smegmatis | Chinese Hamster Ovary | Streptococcus pneumoniae |
| Staphylococcus aureus | Sp2/0 cell (mouse) | Streptococcus salivarius |
| Rhodococcus erythropolis | 293T cell | Enterococcus faecalis |
| Micrococcus luteus | Sf9 cell (Spodoptera frugiperda) | Bacillus subtilis |

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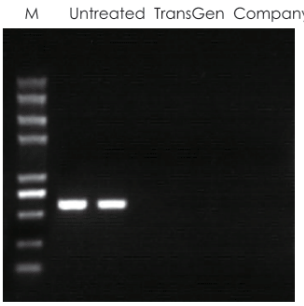
# *TransSafe*™ Mycoplasma Elimination Reagent (TransMyco Plus) Kit

## (FM421)

04

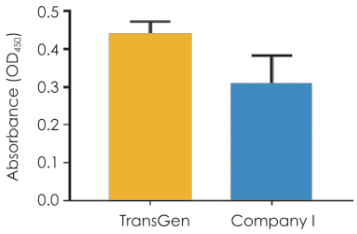
This product contains two types of antibiotic components to effectively eliminate mycoplasma contamination. The first type interferes with protein expression of mycoplasma while the second type interferes with DNA replication of mycoplasma. This product has minimum impact on eukaryotic cells with lower cytotoxicity to maintain high cell viability.

- High mycoplasma removal efficiency
- Active at low working concentration. Low cytotoxicity. Suitable for a wide range of cell types
- Easy to use. Add to the culture medium directly.




M: *Trans*2K® Plus II DNA Marker

Mycoplasma removal efficiency was determined by PCR.




Cell viability was detected by MTT.

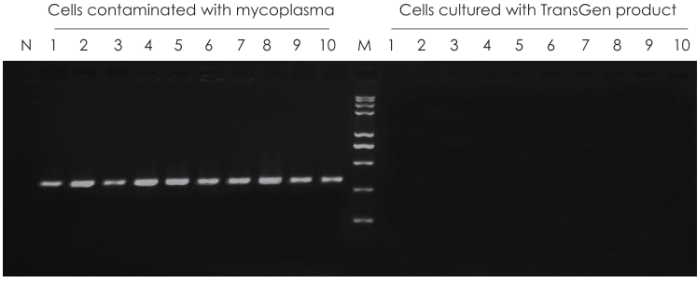
# *TransSafe*™ Mycoplasma Prevention Reagent

## (FM501)

05

This product is a mixture of three mycoplasma antibiotics including macrolides, tetracyclines and fluoroquinolone derivatives, which can effectively interfere with protein expression and DNA replication of mycoplasma. This product can effectively prevent mycoplasma contamination during cell culture process, and can also prevent common gram-positive and gram-negative bacteria. It can be used as a better substitute of common penicillin and streptomycin antibiotics in daily cell culture, with low concentration and almost no cytotoxicity.

- Maximum preventive effect on mycoplasma contamination
- Active at low working concentration. Low cytotoxicity. Suitable for a wide range of cell types.
- Easy to use. Add to the culture medium directly.
- An alternative to Penicillin-Streptomyci with wide range of prevention from common gram-positive and gram-negative bacteria.




M: *Trans*2K® Plus II DNA Marker
N: Negative control
1: HeLa
2: HEK-293
3: Hep G2
4: MCF-7
5: A549
6: K562
7: SP2/0
8: CHO
9: BHK-21
10: Neuro-2a

Preventive effect on mycoplasma contamination determined by PCR

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# Cell Isolation and Culture

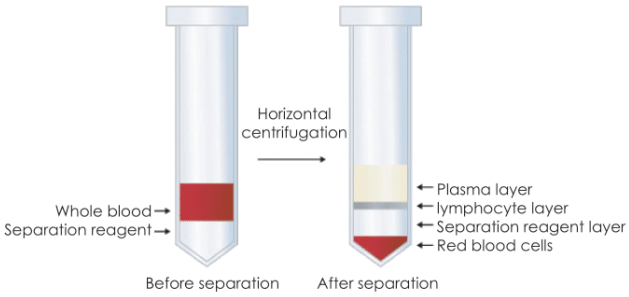
B

# Human Peripheral Blood Lymphocyte Separation Solution (FB102)

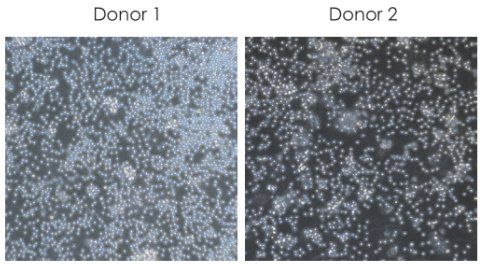
01

- The osmotic molarity of this solution is similar to that of human peripheral blood cells.
- The quantity of separated lymphocytes is greater than $1\times10^6$ cells/mL whole blood.
- The post-separation viability of lymphocytes > 95%.
- This product is ready-to-use, and the lymphocytes separated under sterile conditions can be used for in vitro culture and immunological assays.

**Separation diagram**




**The cell morphology is well preserved**




**The yield of cells is greater than $1\times10^6$ cells/mL whole blood, with a viability of over 95%.**

| Testing Parameters | Donor 1 | Donor 2 | Donor3 | Donor 4 | Donor 5 |
|---|---|---|---|---|---|
| Number of cells harvested per mL of whole blood | $1.51\times10^6$ | $1.78\times10^6$ | $1.12\times10^6$ | $1.33\times10^6$ | $1.5\times10^6$ |
| Lymphocyte viability | 98.22% | 98.59% | 97.08% | 98.41% | 99.28% |

# RBC Lysis Buffer (1×) (FB101)

02

Red Blood Cell (RBC) Lysis Buffer (1×) is designed for the simple and rapid lysis of red blood cells. Due to osmotic stress, it can rapidly rupture non-nucleated red blood cells from blood or tissue samples with minimal effects on lymphocytes or other nucleated cells. This product has been treated with sterile filtration. After processing with RBC Lysis Buffer (1×), the blood or tissue samples can be applied in a variety of routine analysis, tests, primary cell cultures, etc.

- Simple operation with consistent lysis efficiency.
- Broad applicability, suitable for routine analysis, detection, and culture of various cell types and tissues.

# Recombinant Trypsin-EDTA Solution (1×)

## (FG302)

03

• Safe: Xeno-free, no antibiotics, no phenol red.
• Mild reaction: The treatment is mild, resulting in minimal cellular damage, and digestion for 20 minutes has no effect on cell morphology and proliferation rate.
• Convenient: Activity of trypcin can be reduced by dilution without serum termination.

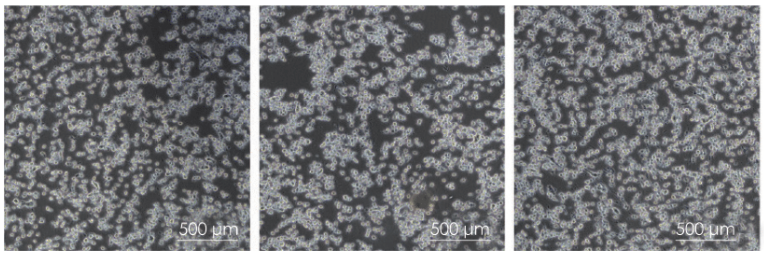
**Compared to conventional porcine-derived trypsin – safer and gentler**

| | Porcine-derived trypsin | Recombinant Trypsin-EDTA Solution (1×) |
|---|---|---|
| Animal-derived | Yes | No |
| Risk of viral contamination | Yes | No |
| Drug applications | Difficult | Easy |
| Storage conditions | -20℃ | 2-8℃, ready-to-use |
| Digestion termination | Serum, serum-containing culture media, or trypsin inhibitors are required to terminate the digestion process. | The activity can be reduced through dilution with basic culture media or serum-free media, avoiding the need for serum to terminate the reaction. |

**Gentle digestion with high cell viability and high cell recovery rate**

hUC-MSCs were digested for 3 minutes

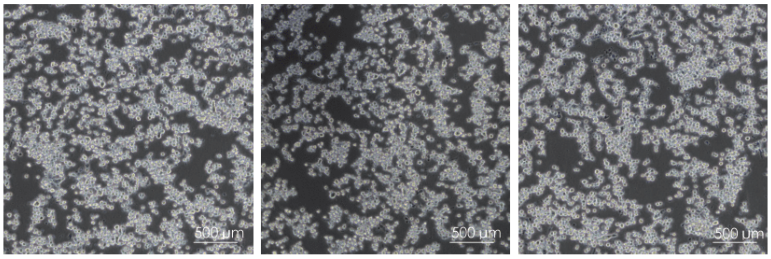
TransGen-Porcine-derived trypsin | TransGen-Recombinant trypsin | Company T-Recombinant trypsin




| | TransGen-Porcine-derived trypsin | TransGen-Recombinant trypsin | Company T-Recombinant trypsin |
|---|---|---|---|
| Digestion time | 2 min | 2-3 min | 2-3 min |
| Viability(%) | 93.09 | 96.1 | 93.68 |
| Recovered cell count | $2.52\times10^5$ | $2.83\times10^5$ | $2.56\times10^5$ |

hUC-MSCs were digested for 20 minutes

TransGen-Porcine-derived trypsin | TransGen-Recombinant trypsin | Company T-Recombinant trypsin




| | TransGen-Porcine-derived trypsin | TransGen-Recombinant trypsin | Company T-Recombinant trypsin |
|---|---|---|---|
| Digestion time | 20 min | 20 min | 20 min |
| Viability(%) | 83.01 | 89.01 | 85.71 |
| Recovered cell count | $2.46\times10^5$ | $2.45\times10^5$ | $2.36\times10^5$ |

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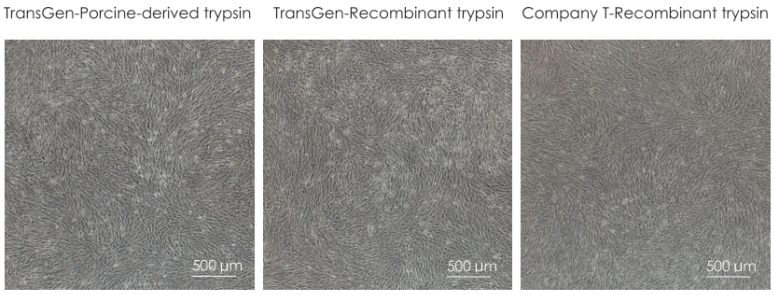
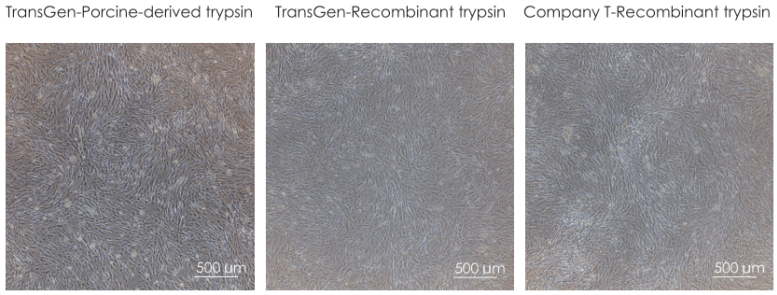
**Cells exhibited normal morphology and maintained proliferative capacity after either 3- or 20-minute digestion**

hUC-MSCs were seeded and cultured for 3 days after 3-minute digestion




| | TransGen-Porcine-derived trypsin | TransGen-Recombinant trypsin | Company T-Recombinant trypsin |
|---|---|---|---|
| Digestion time | 2 min | 2-3 min | 2-3 min |
| Cell proliferation count | $8.43\times10^5$ | $8.84\times10^5$ | $8.85\times10^5$ |

hUC-MSCs were seeded and cultured for 3 days after 20-minute digestion




| | TransGen-Porcine-derived trypsin | TransGen-Recombinant trypsin | Company T-Recombinant rypsin |
|---|---|---|---|
| Digestion time | 20 min | 20 min | 20 min |
| Cell proliferation count | $5.25\times10^5$ | $8.34\times10^5$ | $8.65\times10^5$ |

# *ArtMedia*® Human T Cell Serum-Free Medium (GMP Grade, with/without phenolic red)

04

- Independent research and development
- Serum-free and xeno-free medium
- Suitable for rapid expansion and high-density culture of T-cells
- Can be paired with a variety of T cells activation methods (antibody soluble method, antibody-coated method, magnetic bead conjugate antibody method)
- Production and management with GMP standards

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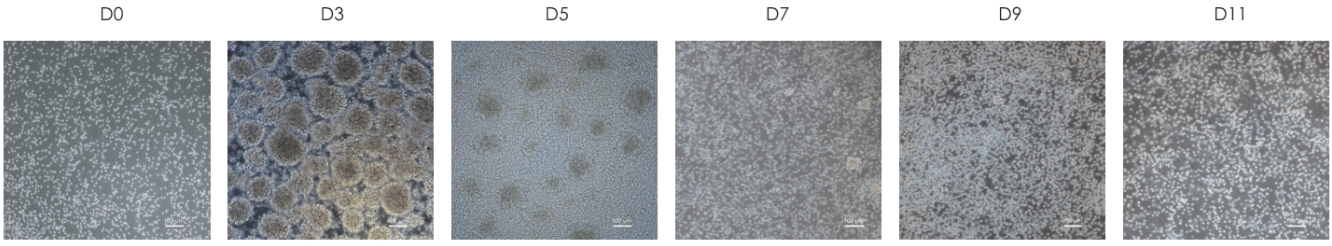
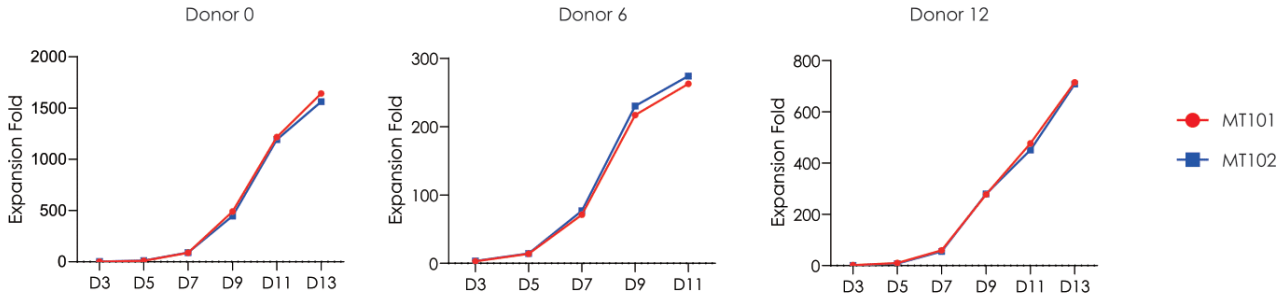
## Good T-cell Morphology

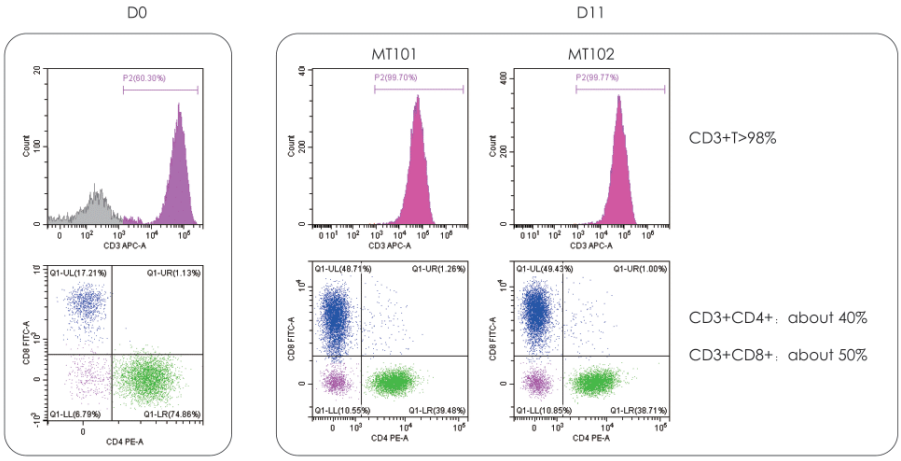



Scale: 100 μm

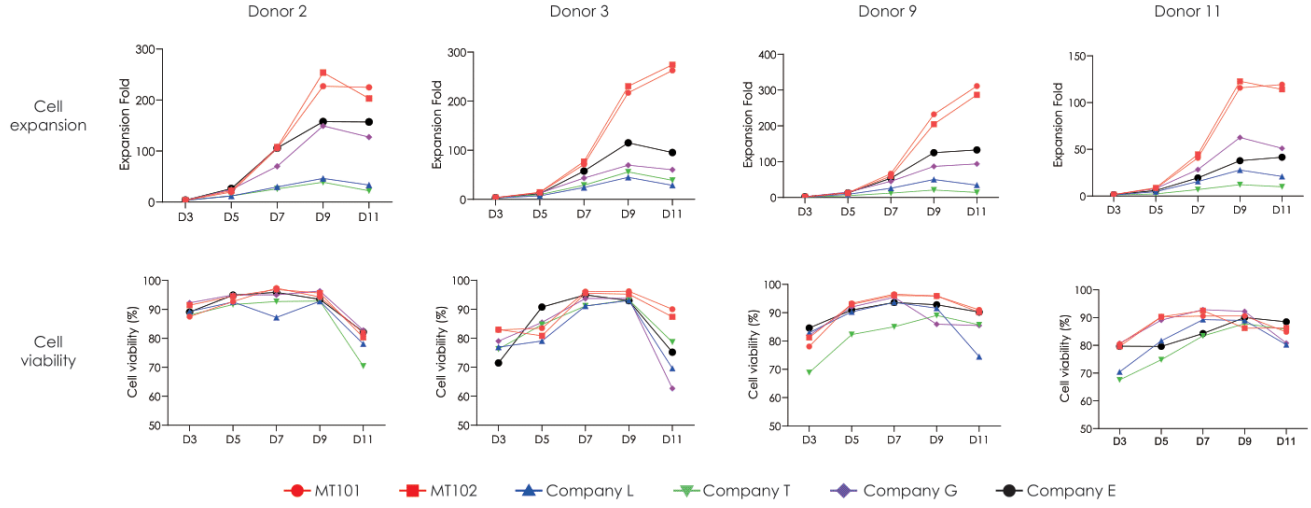
Supported robust and rapid expansion of T cells, resulting in a 200 to 300-fold increase over a continuous 11- to 13-day culture period.




$CD3^+$ T cells comprised >98% of the population, and the proportion of $CD4^+CD8^+$ T cells was sustained.




## Strong proliferation capacity, high cell viability

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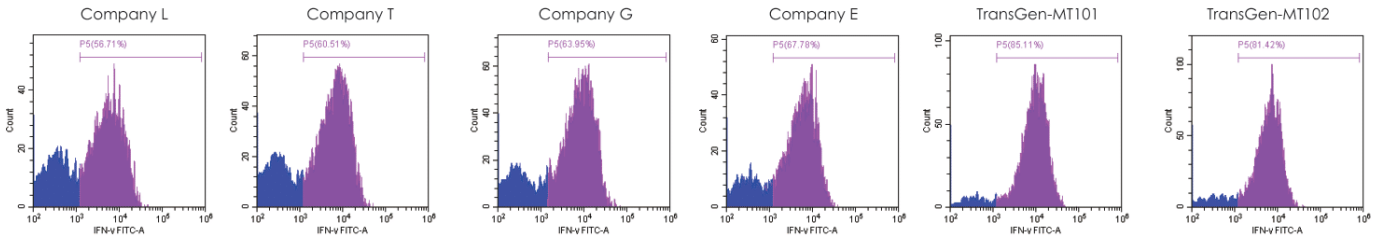
## Enhanced IFN-γ Secretion and Tumor Killing




# *ArtMedia*® Human NK Cell Serum-Free Expansion Kit (MK101)

05

**1. Safety and Stability**

Xeno-Free & Chemically Defined: Contains no animal-derived components and has a fully defined chemical composition.

Serum-Free: Requires only a small amount of inactivated autologous plasma.

Cytokine Kit Format: A pure cytokine reagent kit; does not require the use of feeder cells.

Contains phenol red. Formulated without antibiotics.

**2. Powerful Expansion Capability**

After 14 days: Total cell count expands 100-250 fold; NK cell count expands 1,000-3,000 fold.

After 21 days: Total cell count expands 200-500 fold; NK cell count expands 3,000-8,000 fold.

**3. High NK Cell Purity**

After 14 days: Purity of $CD3^+CD56^+$ cells ≥ 90%; Purity of $CD3^+CD56^+CD16^+$ cells ≥ 85%.

After 21 days: Purity of $CD3^+CD56^+$ cells ≥ 95%; Purity of $CD3^+CD56^+CD16^+$ cells ≥ 90%.

**4. Potent NK Cell Cytotoxicity**

Demonstrates high tumor-killing activity against cancer cell lines.

**5. Operational Excellence and Cost-Effectiveness**

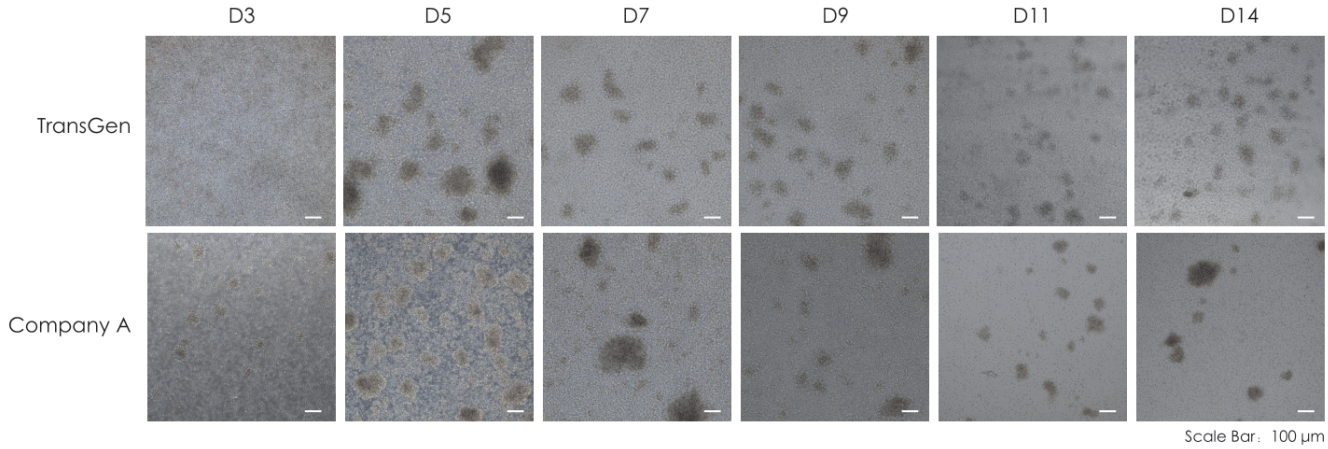
Simple & Scalable: Easy to use and highly suitable for industrial-scale production.

High Cost-Effectiveness: Offers superior performance at an optimized cost.

GMP Compliance: Manufactured and managed in accordance with GMP standards.

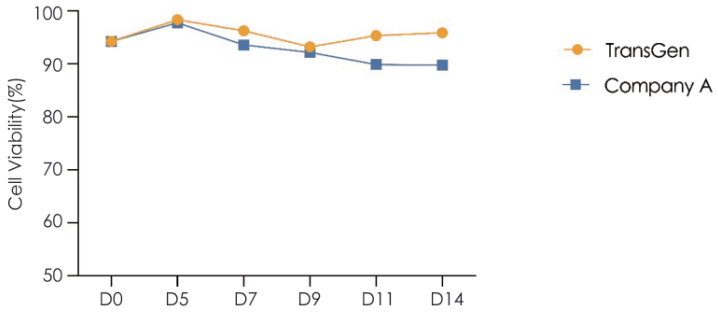
## 20 mL fresh heparinized peripheral blood cultured in a 1 L culture system

**Cell Morphology**




Scale Bar：100 μm

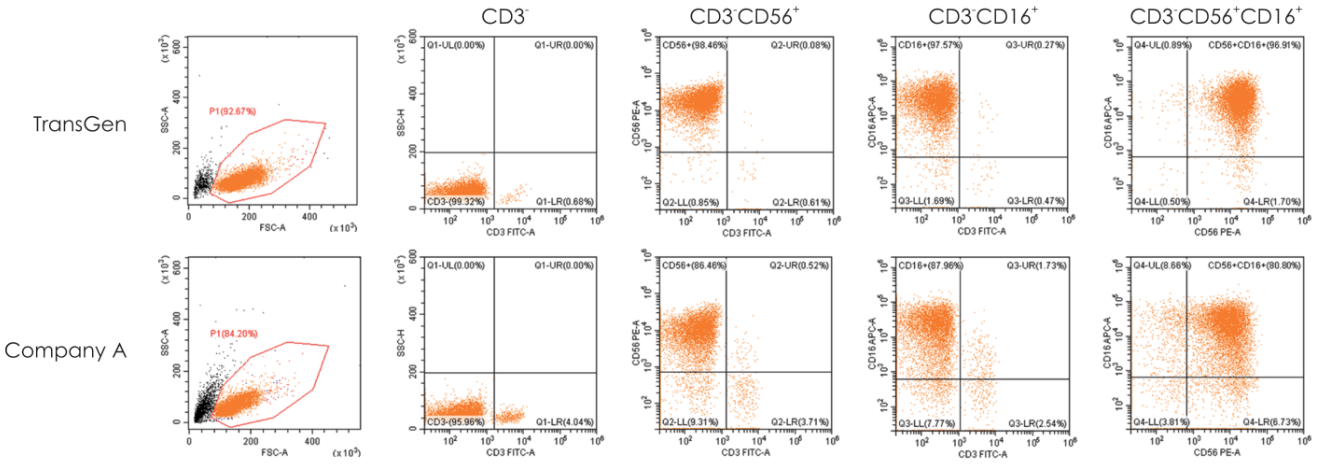
**High Cell Viability**




**High fold expansion**

| Product Used | Time | Medium Volume (mL) (ml) | Cell Number($\times 10^7$ cells) | Total Cell Fold Expansion | NK Cell Fold Expansion |
|---|---|---|---|---|---|
| TransGen | D0 | 10 | 1.94 | 1 | 1 |
| | D5 | 70 | 3.49 | 1.8 | / |
| | D7 | 200 | 21 | 10.82 | 136.94 |
| | D9 | 550 | 53.5 | 27.58 | 373.42 |
| | D11 | 1000 | 95.8 | 49.38 | 684.89 |
| | D14 | 1000 | 215.2 | 110.93 | 1569.18 |
| Company A | D0 | 20 | 1.94 | 1 | 1 |
| | D5 | 80 | 5.29 | 2.73 | / |
| | D7 | 275 | 23.46 | 12.09 | 102.26 |
| | D9 | 525 | 59.4 | 30.62 | 311.5 |
| | D11 | 1000 | 124 | 63.92 | 745.86 |
| | D14 | 1000 | 203.6 | 104.95 | 1303.71 |

**High Purity**

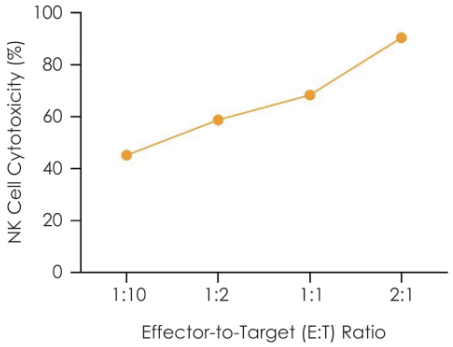



**30 mL of fresh heparin-anticoagulated peripheral blood cultured in a 2 L system**

**High cell viability, high fold expansion, high purity**

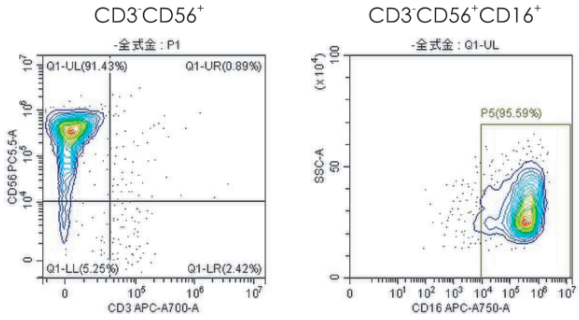
| Time | Medium Volume (mL) | Cell Viability(%) | Cell Number($\times 10^7$ cells) | Total Cell Fold Expansion | NK Cell Fold Expansion | $CD3^-CD56^+$ | $CD3^-CD16^+$ | $CD3^-CD56^+CD16^+$ |
|---|---|---|---|---|---|---|---|---|
| D0 | 20 | 91.89 | 3.6 | 1 | 1 | 10.02 | 10.64 | 8.97 |
| D5 | 160 | 95 | 10.75 | 2.99 | / | / | / | / |
| D7 | 500 | 95.74 | 62.61 | 17.39 | 146.98 | 84.68 | 54.74 | 51.95 |
| D9 | 1200 | 92.83 | 195.6 | 54.33 | 496.48 | 91.56 | 87.41 | 86.25 |
| D11 | 2000 | 91.84 | 408.8 | 113.56 | 1085.92 | 95.82 | 94.36 | 91.84 |
| D14 | 2000 | 94.13 | 720 | 200 | 1973.85 | 98.89 | 96.76 | 96.15 |

**Potent and Highly Efficient Killing Activity**




**30 mL fresh sodium citrate-anticoagulated umbilical cord blood**

**The 20-day culture yielded ~10 billion highly viable (>90%) and potently cytotoxic cells**



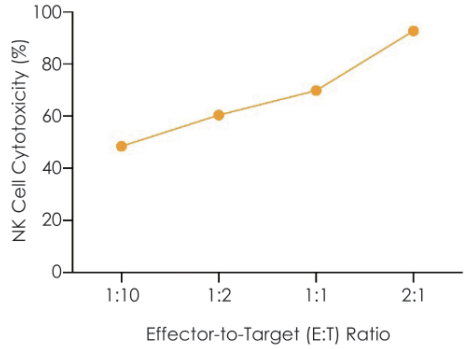

14-Day Cultured NK Cell Purity

**Frozen PBMCs: 2.12×$10^7$ cells in 1 L culture system**

**High cell viability, high fold expansion, high purity**

| Time | Medium Volume (mL) | Cell Viability (%) | Cell Number (×$10^7$ cells) | Total Cell Fold Expansion | NK Cell Fold Expansion | $CD3^-CD56^+$ | $CD3^-CD16^+$ | $CD3^-CD56^+CD16^+$ |
|---|---|---|---|---|---|---|---|---|
| D0 | 10 | 88.09 | 2.12 | 1 | 1 | 4.09 | 4.12 | 4.06 |
| D5 | 70 | 95.56 | 4.17 | 1.97 | / | / | / | / |
| D7 | 200 | 98.06 | 14.26 | 6.73 | 72.35 | 59.17 | 53.62 | 50.69 |
| D9 | 550 | 98.27 | 60.64 | 28.6 | 389.95 | 71.91 | 70.19 | 70.97 |
| D11 | 1000 | 92.16 | 127 | 59.91 | 1277.85 | 83.79 | 82.71 | 81.36 |
| D14 | 1000 | 92.86 | 255 | 120.28 | 3018.77 | 95.31 | 95 | 95.02 |

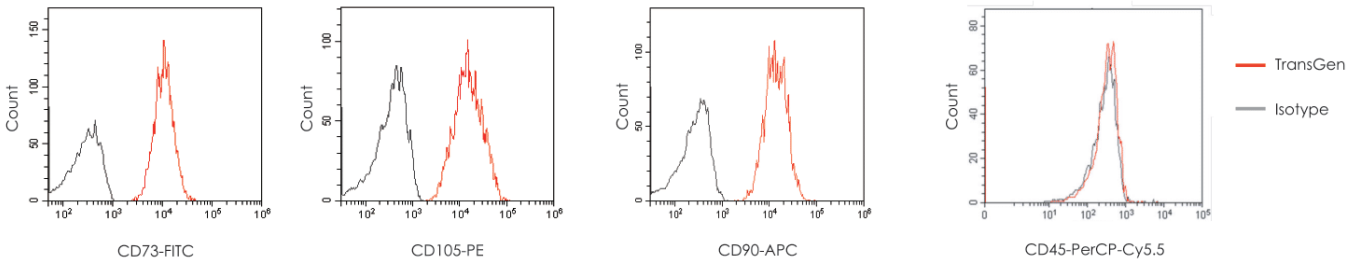
**Potent and Highly Efficient Killing Activity**



# Human MSC Characterization Kit (HF001)

- Staining was performed using a multicolor flow cytometry panel containing four antibodies: CD73, CD105, CD90, and CD45.
- The protocol is designed to minimize the number of cells required for the assay.
- The assay is highly specific, user-friendly, and suitable for the identification of MSCs from various tissue sources.

**Identification of Mesenchymal Stem Cell Surface Markers**




# *TransStem*® Chemically Defined Xeno-free Cell Cryopreservation Medium-Protein Free (MC102)

- Safety: Serum-free, xeno-free, protein-free, chemically defined.
- High efficiency: Significantly enhances cell revival rates, with revival rates exceeding 90% for mesenchymal stem cells.
- Stability: Does not affect the phenotype and growth status of stem cells, while maintaining their multipotency.
- Convenience: Ready-to-use product, no need for programmed cooling, can be directly transferred to liquid nitrogen for long-term storage after overnight storage at -80°C.
- Reliability: Suitable for the cryopreservation of various cells, including stem cells, immune cells, tumor cells, etc.

**Differences from traditional serum-containing cell cryo-preservation solutions**

| Differences | Traditional serum-containing cell cryopreservation solution | Serum-free, protein-free cell cryopreservation solution (containing DMSO) |
|---|---|---|
| Serum | Yes | No |
| Protein | Yes | No |
| Clear chemical composition | Uncertain | Certain |
| Cooling program | Require | Not required |
| Cryopreservation solution preparation | Use immediately after preparation | Ready to use, store at 4℃ |
| Revival rate | Normal | Outstanding (support high concentration cryopreservation) |
| Difference between batches | High | Low |
| Risk of carrying virus | Yes | No |
| Applicable to clinical research | No, containing animal serum and protein | Yes, clear chemical composition, no animal-derived substances, protein-free |

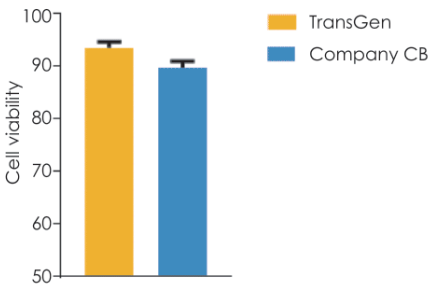
# *TransStem*® Chemically Defined Xeno-free Cell Cryopreservation Medium III-DMSO Free, Protein Free (MC131) (Completely Using Pharmaceutical Grade Materials)

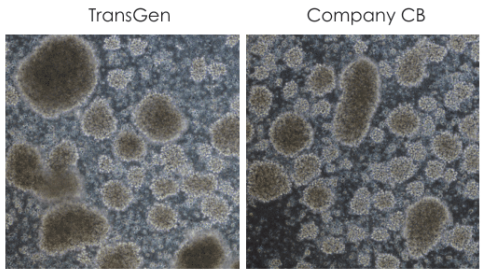
- Safety: Serum-free, xeno-free, protein-free, DMSO-free, clear chemical component, completely using pharmaceutical grade materials, with complete toxicity test.
- High efficiency: Effectively improves cell recovery viability, with over 90% recovery rate for most cells (including mesenchymal stem cells and immune cells).
- Stability: Does not affect stem cell phenotype and growth status, while maintaining stem cell pluripotency.
- Convenience: Ready-to-use product, no programmed cooling required, can be directly transferred to liquid nitrogen for long-term storage after overnight storage at -80°C.
- Reliability: Suitable for cryopreservation of various cells including stem cells, immune cells, tumor cells, and transformed cell lines.

**Differences from traditional serum-containing cell cryopreservation solutions**

| Differences | Traditional serum-containing cell cryopreservation solution | Serum-free, protein-free, DMSO-free cell cryopreservation solution |
|---|---|---|
| Serum | Yes | No |
| Protein | Yes | No |
| DMSO | Yes | No |
| Clear chemical composition | Uncertain | Certain |
| Cooling program | Require | Not required |
| Cryo-preservation solution preparation | Use immediately after preparation | Ready to use, store at 4℃ |
| Revival rate | Normal | Outstanding (support high concentration cryo-preservation) |
| Difference between batches | High | Extremely low |
| Risk of carrying virus | Yes | No |
| Apply for pharmaceutical excipients | Apply for pharmaceutical excipients | Apply for pharmaceutical excipients |
| Applicable to clinical research | No, containing animal serum and protein | Yes, clear chemical composition, xeno-free, protein-free |

**CD3+T cells cryopreservation**

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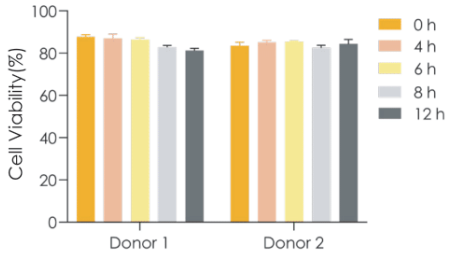
CliniSciences

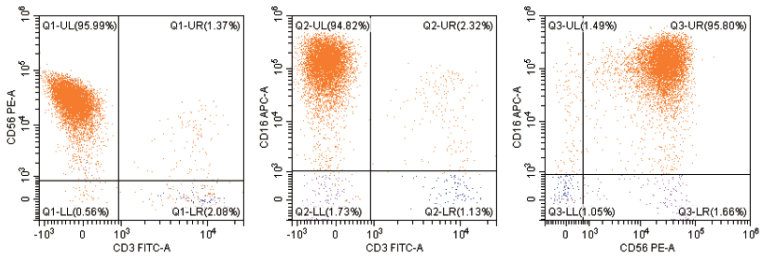
# *TransStem*® Natural Killer Cell Cryopreservation Medium—Protein Free (MC105)

- Safety: Serum-Free, Animal-Component Free, Protein-Free, Chemically Defined, Pharmaceutical-Grade Ingredients, Ultra-Low Endotoxin, < 0.1 EU/mL.
- High efficiency: Effectively increases post-thaw cell viability and supports high-density NK cell cryopreservation. Validated for >85% viability and >80% recovery rate after 3 years of storage.
- Good Stability: minimize post-thaw apoptosis, ensuring sustained cell health and function after resuscitation.
- Ready-to-Use: Compatible with controlled rate freezing protocols and supports direct storage at -80°C.

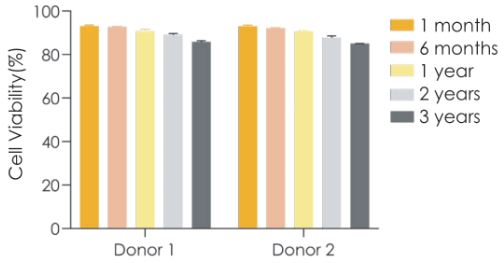
**>80% Viability at 12h Post-Thaw**



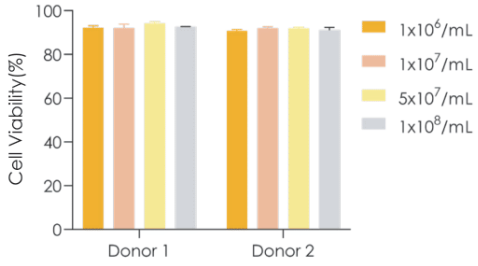

**Normal Surface Marker Phenotype After 1-Year Cryopreservation**




**>85% Viability After 3 Years**




**High-Density Cryopreservation Support**

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# Cell Transfection

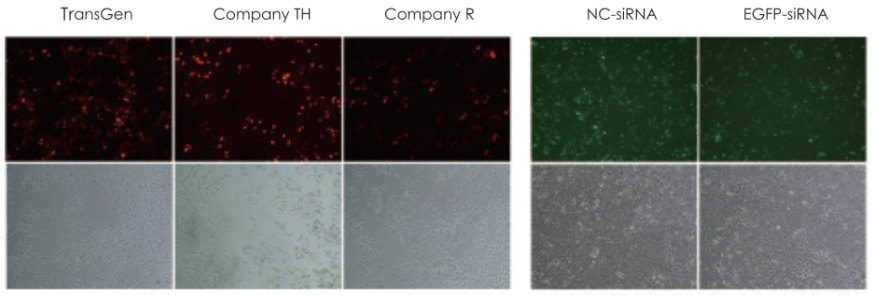
# *TransIntro*™ EL Transfection Reagent
## (FT201)

01

- High transfection efficiency: Improve the transfection efficiency of a variety of difficult-to-transfect cells.
- Low cytotoxicity: Minimum effect on cellular physiological processes.
- Simple operation: No need to change the medium after transfection, tolerance with serum and antibiotics.
- Broad range of applications: Applicable for both DNA and RNA.

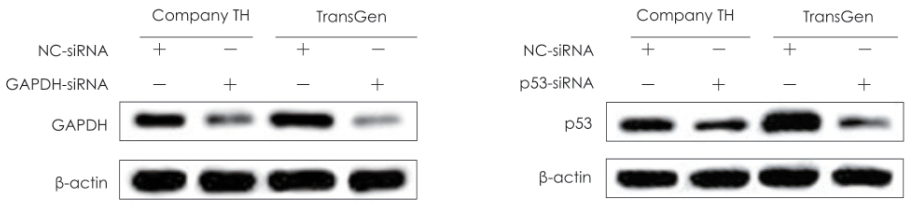
**Successfully transfected cell types with *TransIntro*™ EL Transfection Reagent**

| | | | | |
|---|---|---|---|---|
| A549 | COS-1 | Hep G2 | MEF | PANC-1 |
| B16-F10 | DLD-1 | HL-60 | MIA PaCa-2 | PT67 |
| BHK-21 | HCT-116 | K562 | Neuro-2a | SGC-7901 |
| BTC | HEK-293 | L929 | NIH/3T3 | SH-SY5Y |
| C2C12CEF | HEK-293T | NRK | P815 | Porcine epithelial granulosa cells |
| CHO | HeLa | Vero | U2OS | Bovine fibroblasts |
| CEF | COS-7 | STO | MARC-145 | Pilose antler stem cells |
| MCF-7 | | | | |




Transfected with DNA (HeLa)

Co-transfected with DNA and siRNA (HEK-293)




siRNA transfection effect with HEK-293 cells detected by Western Blot

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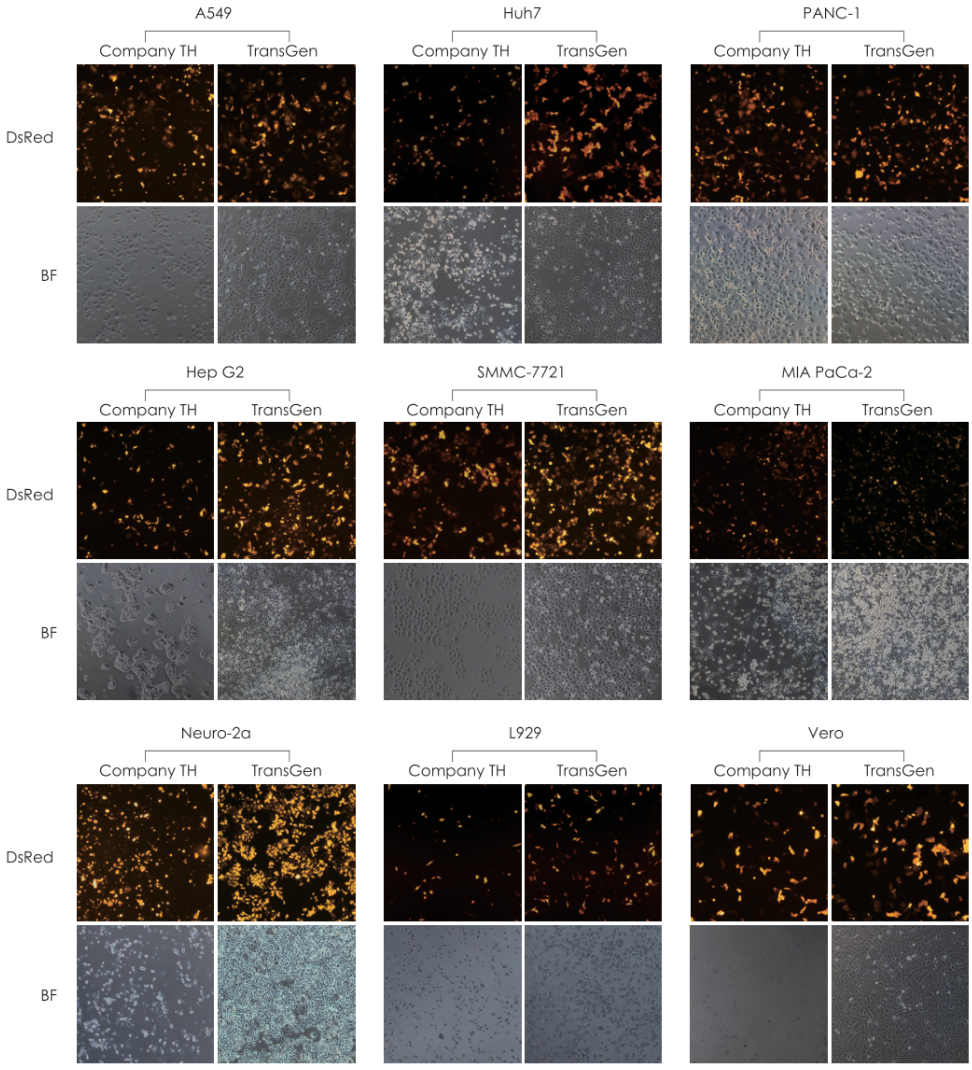
# *TransIntro*® PL Transfection Reagent
## (FT301)

02

- Highly efficient and stable transfection for tumor cell lines, such as lung cancer, colorectal cancer, liver cancer, pancreatic cancer, facilitating the establishment of stable and reliable cell models.
- Low cytotoxicity and minimum effect on cellular physiological processes.
- Tolerance with antibiotics.

**Successfully transfected cell types with *TransIntro*® PL Transfection Reagent**

| Tumor cell lines | | | Neural cell lines | Other cell lines | | Primary cell lines |
|---|---|---|---|---|---|---|
| A549 | HCT 116 | MCF-7 | Neuro-2a | BHK21 | NIH3T3 | HUVEC |
| B16-F10 | Huh7 | MIA PaCa-2 | SH-SY5Y | CHO | Vero | MEF |
| DLD-1 | HT-29 | PANC-1 | | HEK-293 | L929 | MCM |
| HeLa | SGC-7901 | SMMC-7721 | | HEK-293T | Marc 145 | |
| Hep G2 | SW480 | | | BTC | | |



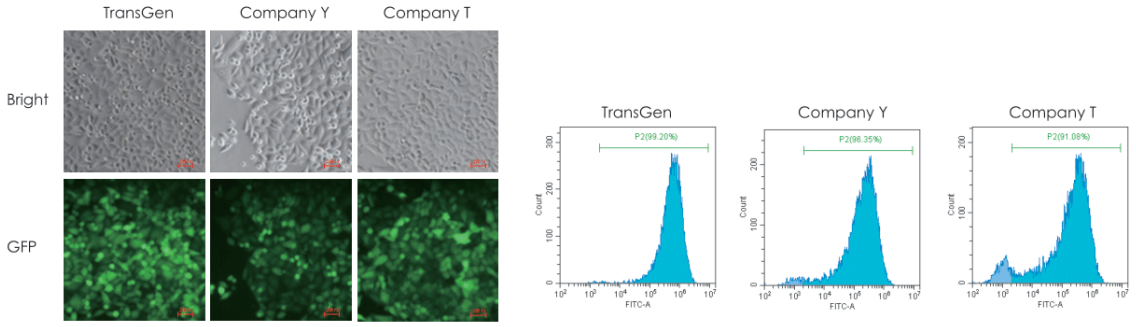

**Distributed by**
CliniSciences

# *TransIntro*® mRNA Transfection Reagent
## (FT501)

03

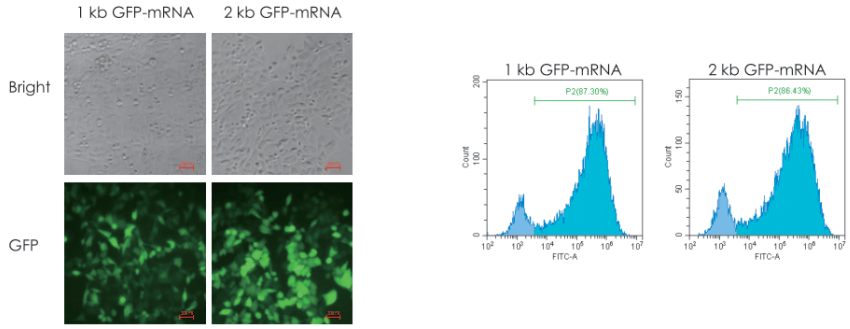
- High transfection efficiency: Efficiently transfect difficult-to-transfect cells.
- Low cytotoxicity: It has little effect on cell physiological processes.
- Easy operation: There is no need to change culture medium after transfection, and it can be added directly to cells in culture medium with serum and antibiotics.

### High transfection efficiency



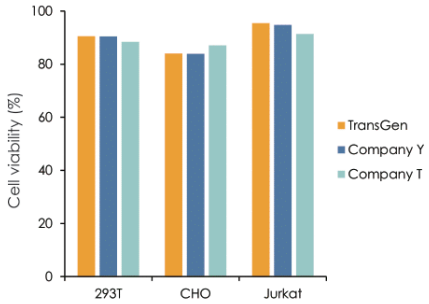

Hela cells were transfected with 1 kb GFP-mRNA using transfection reagents from TransGen, Company Y, and Company T. At 48 hours post-transfection, cell morphology was observed under a fluorescence microscope, and transfection efficiency was measured using flow cytometry. The results showed that cells transfected with the TransGen reagent exhibited better morphology and higher transfection efficiency.

### Transfection with mRNA of different lengths




Hela cells were transfected with 1 kb and 2 kb GFP-mRNA using the TransGen reagent. At 24 hours post-transfection, the cell status remained excellent under fluorescence microscopy, and the transfection efficiency detected by flow cytometry reached over 86%.

### High cell viability




Different cell types were transfected with 1 kb GFP-mRNA using reagents from TransGen, Company Y, and Company T. Cell viability was assessed 24 hours post-transfection using a cell counter. The results demonstrated that the TransGen reagent achieved higher cell viability compared to the others.

### Cells successfully transfected with *TransIntro*® mRNA Transfection Reagent

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| A549 | CHO | HeLa | Vero | HCT116 | MEF | SH-SY5Y | Neuro-2a | Jurkat |
| C2C12CEF | CEF | MCF-7 | HEK-293 | HEK-293T | Hep G2 | HL-60 | NIH/3T3 | |

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# Cell Detection

# Cell Viability/Proliferation Detection

# 01

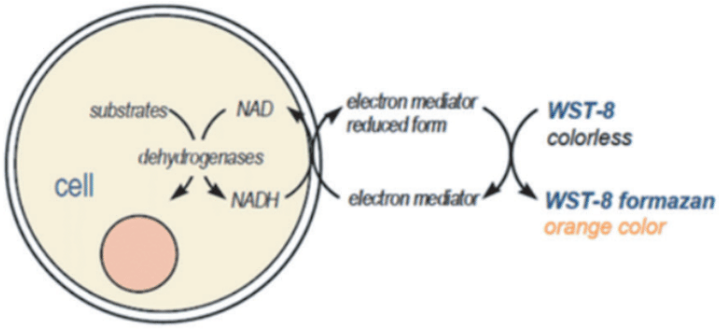
## *TransDetect*® Cell Counting Kit (CCK)

### (FC101)

Designed for cell proliferation assays as well as cytotoxicity assays by utilizing a water-soluble tetrazolium salt. The faster the cell proliferation, the lower cytotoxicity and the more cells, the darker the color. The color development has a good linear relationship with the number of cells.

- Fast detection and high sensitivity.
- Low cytotoxicity.
- Broad linear range.
- Good stability and high repeatability.

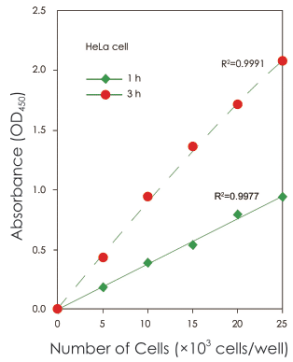
**Schematic diagram of CCK**




**High Sensitivity**

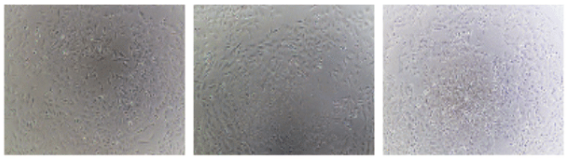
HeLa cells were seeded in a 96-well plate at densities of 0, 5,000, 10,000, 15,000, 20,000, and 25,000 cells per well and incubated at 37°C for 3 hours. After removing the cell culture supernatant, 110 µl of culture medium pre-mixed with CCK reagent (100 µl of DMEM with 10% FBS + 10 µl CCK reagent) was added to each well. The cells were then returned to the 37°C incubator for further culture. At 1 hour and 3 hours after adding CCK, the plate was placed in a microplate reader to measure the absorbance at a wavelength of 450 nm. A standard curve was plotted. The results showed a strong linear relationship between the absorbance and the cell number, with $R^2 > 0.99$.

## CCK sensitivity test




## Low Cytotoxicity

Based on the above experiment, after the 3-hour measurement, the culture medium in the wells seeded with 10,000 cells was replaced with fresh DMEM medium containing 10% FBS. Within 24 hours after adding CCK, the cell morphology in the culture wells was observed. As shown in the figure, the cells were in good condition, indicating low cytotoxicity of FC101 and that the cells remained viable for subsequent experiments after the assay.



3 hours incubation | 6 hours incubation | 24 hours incubation

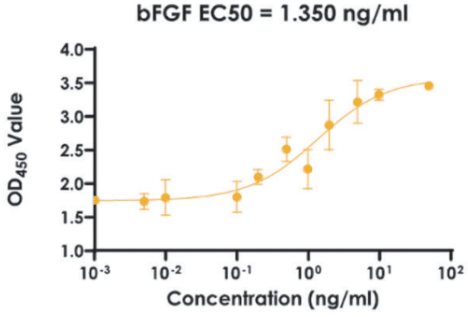
## Good Stability

Experimental data demonstrate that the key performance parameters of this CCK product exhibited no significant alterations after three freeze-thaw cycles at -20°C, thereby meeting all predefined quality specifications.

| Freeze-Thaw Cycles | $R^2$ Value (Indicator of Linearity) | CV% @ 5000 cells (Indicator of Precision) |
|---|---|---|
| 0 (Fresh) | 0.995 | 4.5% |
| 1 Cycle | 0.993 | 5.1% |
| 2 Cycles | 0.990 | 6.2% |
| 3 Cycles | 0.985 | 7.8% |

## Application Example: bFGF Cytokine Activity Assay

NIH-3T3 cells were treated with varying concentrations of the growth factor bFGF (0.001, 0.005, 0.01, 0.1, 0.2, 0.5, 1, 2, 5, 10, 50 ng/ml) for 48 hours, followed by detection with the CCK reagent. The $EC_{50}$ of bFGF was determined to be 1.350 ng/ml.



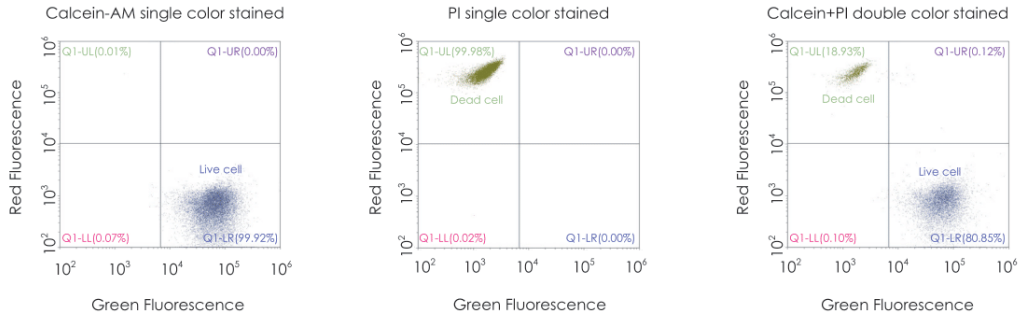
# 02

# *TransDetect*® Cell LIVE/DEAD Viability/ Cytotoxicity Detection Kit

## (FC301)

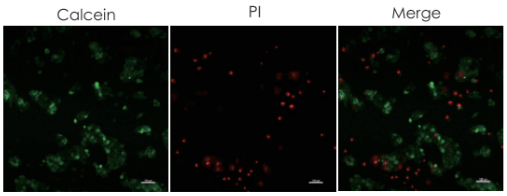
- Simple operation, high specificity of fluorescence
- Low cytotoxicity
- Quantification or sorting can be performed by flow cytometry

### Detection by Flow Cytometry




The HeLa living cells and the fixed permeabilized dead cells were mixed at a ratio of 4:1, and the results were analyzed by flow cytometry after double staining.

### Detection by Fluorescence Microscopy




Fluorescence microscopy results of double stained Hep G2 cells

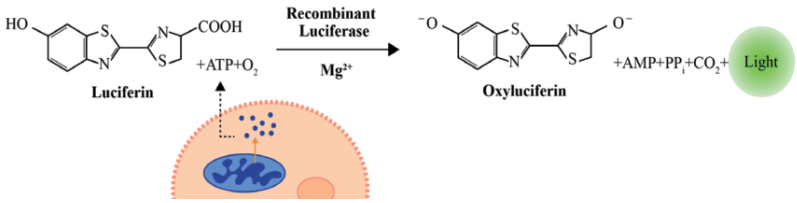
# 03

# *TransDetect*® Luminescent Cell Viability Detection Kit

## (FC401)

- Simple operation: Single-component formulation enables rapid lysis in just 10 minutes, with compatibility for high-throughput detection.
- High sensitivity: Capable of detecting as few as 5 cells.
- Excellent stability: Half-life of up to 3 hours; maintains strong linearity even after 7 days at room temperature.
- Wide linear range: Demonstrates reliable linearity across a broad range (5–100,000 cells).

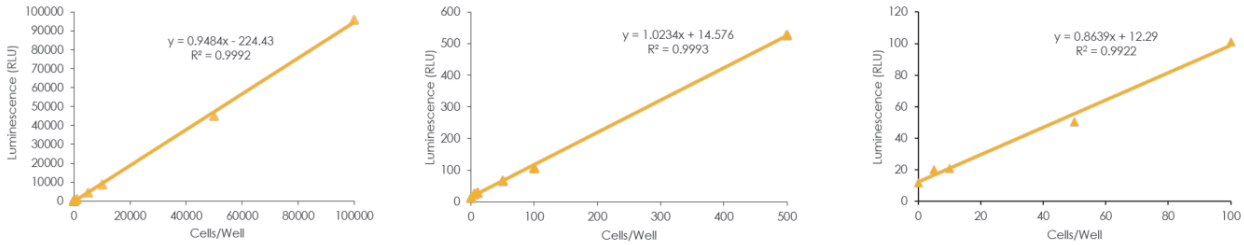
### Schematic diagram of the detection principle




Schematic diagram of luminescent cell viability assay principle Procedure

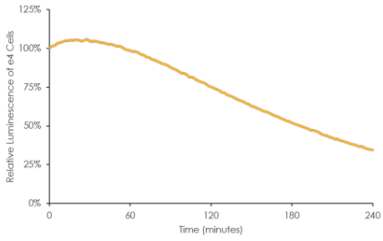
### Procedure


### Wide linear range, high sensitivity




Using TransGen's product for cell viability detection across varying cell concentrations, the results demonstrated excellent linearity in fluorescence values within a range of 5–100,000 cells. The assay exhibited a broad linear range and high sensitivity, with a detection limit as low as 5 cells.

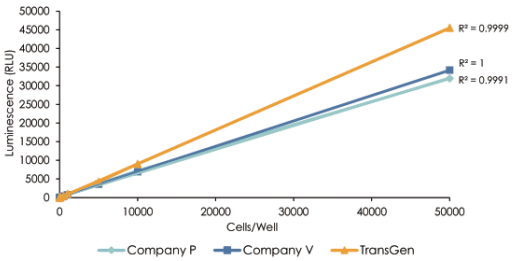
## Excellent stability and prolonged half-life




Using TransGen's product to analyze 10,000 cells, fluorescence intensity was measured at different time points. The results demonstrated high stability of the product, maintaining 98% of fluorescence signal intensity within 1 hour and 75% within 2 hours, with a half-life exceeding 3 hours.

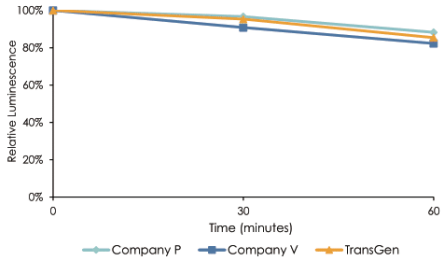
## Comparison with competitors

Wide linear range, high sensitivity



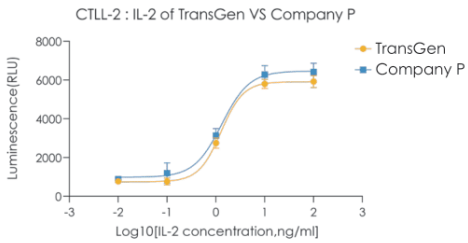

Cell viability assays were performed using TransGen, Company P, and Company V products across varying cell concentrations. The results demonstrated that TransGen's product exhibited superior linearity ($R^2 > 0.99$) within a broad range of 5-50,000 cells, along with significantly higher fluorescence intensity compared to competitors.

Excellent stability and prolonged half-life




Cell viability was assessed using TransGen, Company P, and Company V products with fluorescence measurements taken at multiple time points. The results demonstrated significantly high stability for TransGen's product.

## Application example - cytokine activity analysis




| | TransGen | Company P |
|---|---|---|
| log(agonist) vs. response -- Variable slope (four parameters) | | |
| Best-fit values | | |
| Bottom | 751.7 | 984.3 |
| Top | 5915 | 6465 |
| LogEC50 | 0.1055 | 0.1197 |
| HillSlope | 1.904 | 1.542 |
| $EC_{50}$ | 1.275 | 1.317 |
| Span | 5164 | 5480 |

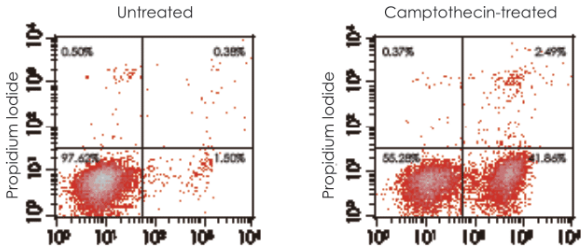
The product's performance was benchmarked against international competitor Company P in detecting recombinant human IL-2 bioactivity. Calculated $EC_{50}$ values were 1.275 ng/mL (TransGen) and 1.317 ng/mL (Company P).

# Cell Apoptosis Detection

## *TransDetect*® Annexin V-FITC/PI Cell Apoptosis Detection Kit (FA101)

01

- Detect apoptosis in both adherent and suspension cells using flow cytometry or fluorescence microscopy with Annexin V-FITC as the fluorescent probe.
- Combine Annexin V-FITC with propidium iodide (PI) to distinguish cells at different apoptotic stages.



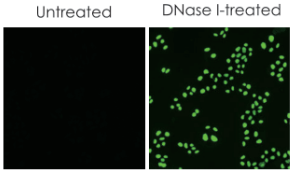

Flow cytometry analysis of camptothecin-induced apoptosis in Jurkat T-lymphoma cells

## *TransDetect*® *In Situ* Fluorescein TUNEL Cell Apoptosis Detection Kit (FA201)

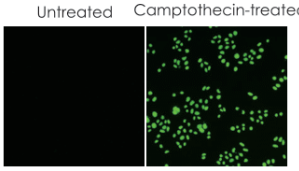
02

- Low toxicity: Free of highly toxic organic arsenic-based buffers required in traditional TUNEL assays.
- High sensitivity & specificity: Optimized ratio of labeled to unlabeled substrates ensures precise detection.
- Simple one-step protocol: Just mix TdT with Labeling Solution—no complex pipetting or extended incubations.
- Broad compatibility & flexible detection.

**High sensitivity, low background staining**

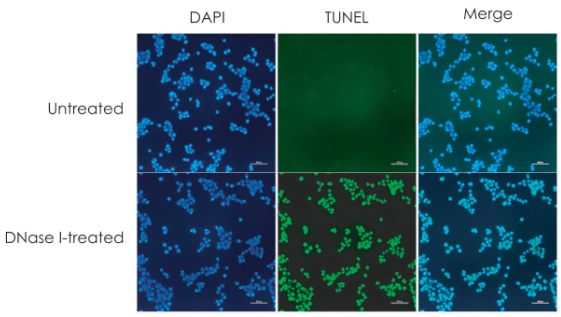



Detection result of HeLa cells after 10-minute DNase I treatment

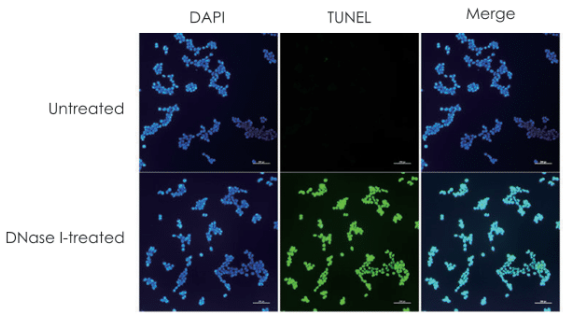



Detection results of HeLa cells after 24-hour camptothecin treatment

**Broad applicability**

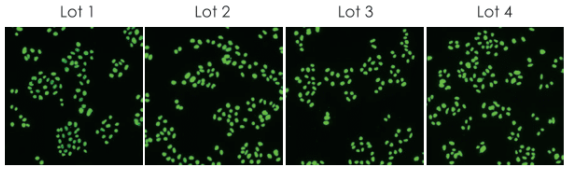



Detection result of NIH3T3 cells after 10-minute DNase I treatment




Detection result of 293T cells after 10-minute DNase I treatment

**Good stability**




Detection results of HeLa cells treated with DNase I for 10 minutes across different product batches

# Luciferase Reporter Assay

## *TransDetect*® Single-Luciferase (Firefly) Reporter Assay Kit
**(FR101)**

01

## *TransDetect*® Single-Luciferase (*Renilla*) Reporter Assay Kit
**(FR111)**

02

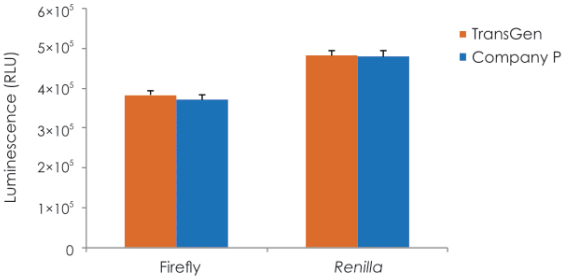
**Distributed by**
CliniSciences

# *TransDetect*® Double-Luciferase Reporter Assay Kit
## (FR201)

03

The activity of firefly luciferase reporter gene was detected with luciferin as the substrate, and the activity of *Renilla* luciferase reporter gene was detected with coelenterin as the substrate.

- Rapid detection
- High sensitivity
- Wide detection range
- No interference with cellular endogenous activity



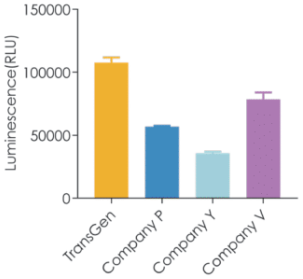

# *TransDetect*® Dual-Luc Pro Luciferase Reporter Assay Kit
## (FR203)

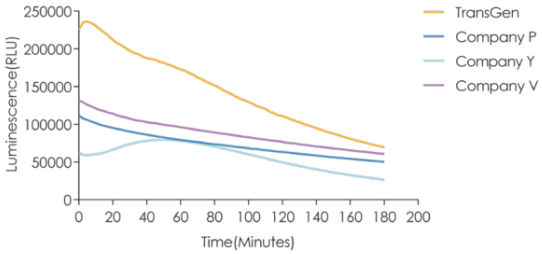
04

- Stable luminescent signal: a half-life of approximately 2 hours (20-25℃), making it suitable for high-throughput assays.
- Easy to use: No need to remove the culture medium—simply add the detection reagent directly.
- More reliable data: Higher termination efficiency, no background signal interference, and more accurate results.
- Precise detection: Normalized using Renilla luciferase as an internal control gene to correct for well-to-well variations in cell number and transfection efficiency.

**High fluorescence intensity with long half-life**

For Firefly Luciferase

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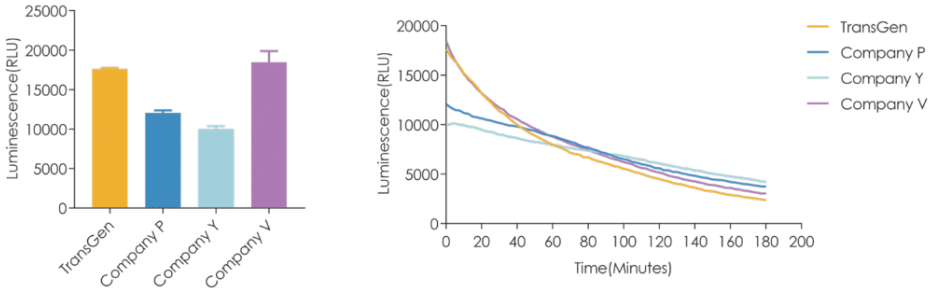
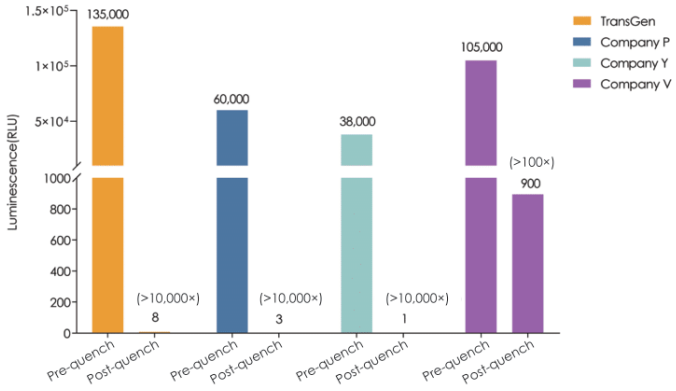
For Renilla Luciferase




Continuously monitor the luminescence intensity and signal stability of both firefly luciferase and Renilla luciferase for 3 hours.

## Firefly luciferase exhibits effective luminescence quenching, delivering more reliable data

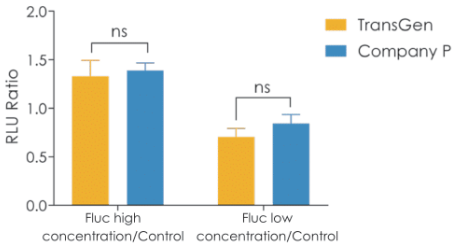



Detection of residual signal after quenching firefly luciferase luminescence

## Application example

Table 1 Plasmid Dosage for Transfection

| 96-well plates/well | Fluc plasmid | Rluc plasmid |
|---|---|---|
| Control | 60 ng | 300 ng |
| Fluc high concentration | 120 ng | 300 ng |
| Fluc low concentration | 30 ng | 300 ng |




Comparison between TransGen products and competitor Company P in transfecting 293T cells with varying plasmid amounts.

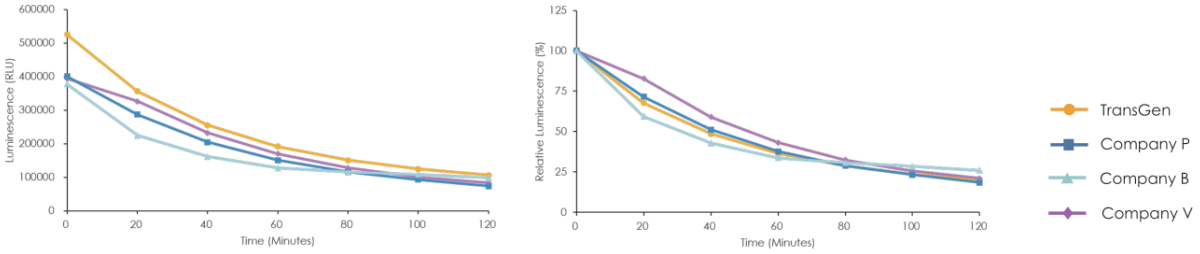
# 05

# *TransDetect*® Bright-Luc Firefly Luciferase Reporter Assay Kit

## (FR104)

- Simple Operation: One-step protocol—no washing or cell harvesting required.
- Fast Detection: Complete all steps in just 5–10 minutes.
- High Stability: Extended half-life of 40 minutes.
- Bright Signal: High fluorescence intensity, ideal for luminescence-sensitive assays.
- Batch processing: Designed for rapid small-batch runs (up to 10 plates).

**High fluorescence intensity with excellent signal stability (40-minute half-life)**




Comparison of luminescence intensity in 293T cells stably expressing firefly luciferase: TransGen vs. competitor products

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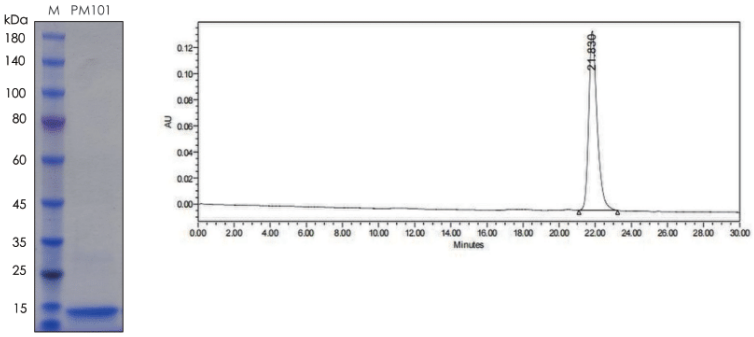
# GMP-Grade Cytokines

# Recombinant Human IL-2 Protein (GMP Grade)

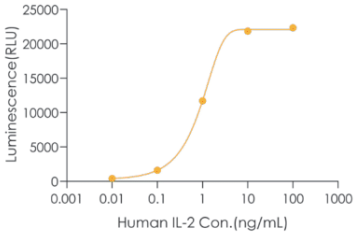
## (PM101)

- GMP-grade quality management system.
- Endotoxin level below 10 EU/mg.
- High purity, high activity, and high stability.
- High batch-to-batch consistency.

**Purity > 98% (SDS-PAGE & SEC-HPLC)**




**Biological activity >1×10$^7$ IU/mg**




| Product Name | Cat. No. | Expression Host | Specification | Application | | |
|---|---|---|---|---|---|---|
| | | | | Immune Cell Culture | Stem Cell Culture | Organoid Culture |
| Recombinant Human IL-2 Protein (GMP Grade) | PM101 | CHO Cells | 1×10$^6$ IU/100 μg<br>1×10$^7$ IU/1 mg | ★ | | |
| Recombinant Human IL-15 Protein (GMP Grade) | PM102 | CHO Cells | 10 μg<br>50 μg<br>1 mg | ★ | | |
| Recombinant Human IL-12 Protein (GMP Grade) | PM103 | CHO Cells | | ★ | | |
| Recombinant Human FGF basic Protein (GMP Grade) | PM104 | *E.coli* | | | ★ | ★ |
| Recombinant Human VEGF165 Protein (GMP Grade) | PM105 | CHO Cells | | | ★ | ★ |
| Recombinant Human IL-1 alpha Protein (GMP Grade) | PM106 | *E.coli* | | ★ | | |
| Recombinant Human IL-4 Protein (GMP Grade) | PM107 | CHO Cells | | ★ | | ★ |
| Recombinant Human IL-6 Protein (GMP Grade) | PM108 | CHO Cells | | ★ | | |
| Recombinant Human IL-7 Protein (GMP Grade) | PM109 | CHO Cells | | ★ | | |
| Recombinant Human IL-18 Protein (GMP Grade) | PM110 | CHO Cells | | ★ | | |
| Recombinant Human IL-21 Protein (GMP Grade) | PM111 | CHO Cells | | ★ | | |
| Recombinant Human Activin A Protein (GMP Grade) | PM112 | CHO Cells | | | ★ | ★ |
| Recombinant Human TGF-beta 1 Protein (GMP Grade) | PM113 | CHO Cells | | | ★ | ★ |
| Recombinant Human IFN-gamma Protein (GMP Grade) | PM114 | CHO Cells | | ★ | | |
| Recombinant Human GM-CSF Protein (GMP Grade) | PM115 | CHO Cells | | ★ | | |
| Recombinant Human TNF-alpha Protein (GMP Grade) | PM116 | CHO Cells | | ★ | | |
| Recombinant Human EGF Protein (GMP Grade) | PM117 | CHO Cells | | | ★ | ★ |
| Recombinant Human HGF Protein (GMP Grade) | PM118 | CHO Cells | | | ★ | ★ |
| Recombinant Human PDGF-BB Protein (GMP Grade) | PM119 | CHO Cells | | | ★ | ★ |
| Recombinant Human SCF Protein (GMP Grade) | PM120 | CHO Cells | | | ★ | ★ |
| Recombinant Human Vitronectin Protein (GMP Grade) | PM121 | CHO Cells | | | ★ | ★ |
| Recombinant Human Fibronectin Protein (GMP Grade) | PM122 | CHO Cells | | ★ | ★ | ★ |

## Mycoplasma

| Product Name | Cat. No. | Specifications |
|---|---|---|
| *TransDetect*® Luciferase Mycoplasma Detection Kit | FM301-01 | 25 rxns |
| | FM301-02 | 50 rxns |
| *TransDetect*® PCR Mycoplasma Detection Kit | FM311-01 | 100 rxns |
| *TransDetect*® qPCR Mycoplasma Detection Kit | FM321-00 | 50 rxns |
| | FM321-01 | 100 rxns |
| *TransSafe*™ Mycoplasma Elimination Reagent (TransMyco Plus) Kit | FM421-01 | 10 ml |
| | FM421-02 | 20 ml |
| *TransSafe*™ Mycoplasma Prevention Reagent | FM501-01 | 1 ml |
| | FM501-02 | 5 ml |

## Cell Isolation and Culture

| Product Name | Cat. No. | Specifications |
|---|---|---|
| Human Peripheral Blood Lymphocyte Separation Solution | FB102-02 | 200 ml |
| RBC Lysis Buffer（1×） | FB101-01 | 100 ml |
| Recombinant Trypsin-EDTA Solution（1×） | FG302-01 | 100 ml |
| | FG302-02 | 500 ml |
| *TransSerum*® Chemically Defined Xeno-free Cell Cryopreservation Medium-Protein Free | MC102-01 | 100 ml |
| *TransSerum*® Stem Cell Cryopreservation Medium—Protein Free | MC103-01 | 100 ml |
| *TransSerum*® Peripheral Blood Mononuclear Cell Cryopreservation Medium—Protein Free | MC104-01 | 100 ml |
| *TransSerum*® Natural Killer Cell Cryopreservation Medium—Protein Free | MC105-01 | 100 ml |
| *TransSerum*® Chemically Defined Xeno-free Cell Cryopreservation Medium III-DMSO Free,Protein Free | MC131-01 | 5 ml |
| | MC131-02 | 50 ml |
| | MC131-03 | 100 ml |
| *ArtMedia*® Human T Cell Serum-Free Medium (GMP Grade) | MT101-01 | 1000 ml |
| *ArtMedia*® Human T Cell Serum-Free Medium, no phenol red (GMP Grade) | MT102-01 | 1000 ml |
| *ArtMedia*® Human NK Cell Serum-Free Expansion Kit | MK101-01 | 1 L |
| | MK101-02 | 2 L |
| Human MSC Characterization Kit | HF001-01 | 25 tests |
| | HF001-02 | 50 tests |

## Cell Transfection

| Product Name | Cat. No. | Specifications |
|---|---|---|
| *TransIntro*® EL Transfection Reagent | FT201-01 | 0.75 ml |
| | FT201-02 | 2×0.75 ml |
| *TransIntro*® PL Transfection Reagent | FT301-01 | 0.75 ml |
| | FT301-02 | 2×0.75 ml |
| *TransIntro*® PEI Transfection Reagent（GMP Grade） | FT401-01 | 1 ml |
| | | 10 ml |
| *TransIntro*® mRNA Transfection Reagent | FT501-01 | 0.2 ml |
| | FT501-02 | 1 ml |

## Cell Detection

| Product Name | Cat. No. | Specifications |
|---|---|---|
| *TransDetect*® Cell Counting Kit (CCK) | FC101-01 | 1 ml |
| | FC101-02 | 5 ml |
| | FC101-03 | 2×5 ml |
| | FC101-04 | 6×5 ml |
| *TransDetect*® Cell LIVE/DEAD Viability/Cytotoxicity Detection Kit | FC301-01 | 100 rxns |
| *TransDetect*® Luminescent Cell Viability Detection Kit | FC401-01 | 10 ml |
| | FC401-02 | 100 ml |
| *TransDetect*® Annexin V-FITC/PI Cell Apoptosis Detection Kit | FA101-01 | 25 rxns |
| | FA101-02 | 50 rxns |
| *TransDetect*® *In Situ* Fluorescein TUNEL Cell Apoptosis Detection Kit | FA201-01 | 25 rxns |
| | FA201-02 | 50 rxns |
| *TransDetect*® Single-Luciferase (Firefly) Reporter Assay Kit | FR101-01 | 50 rxns |
| | FR101-02 | 200 rxns |
| *TransDetect*® Single-Luciferase (*Renilla*) Reporter Assay Kit | FR111-01 | 50 rxns |
| | FR111-02 | 200 rxns |
| *TransDetect*® Double-Luciferase Reporter Assay Kit | FR201-01 | 50 rxns |
| | FR201-02 | 200 rxns |
| *TransDetect*® Dual-Luc Pro Luciferase Reporter Assay Kit | FR203-01 | 100 rxns |
| | FR203-02 | 1000 rxns |
| *TransDetect*® Bio-Luc Firefly Luciferase Reporter Assay Kit | FR103-01 | 10 ml |
| | FR103-02 | 100 ml |
| | FR103-03 | 100 ml |
| *TransDetect*® Bright-Luc Firefly Luciferase Reporter Assay Kit | FR104-01 | 10 ml |
| | FR104-02 | 100 ml |

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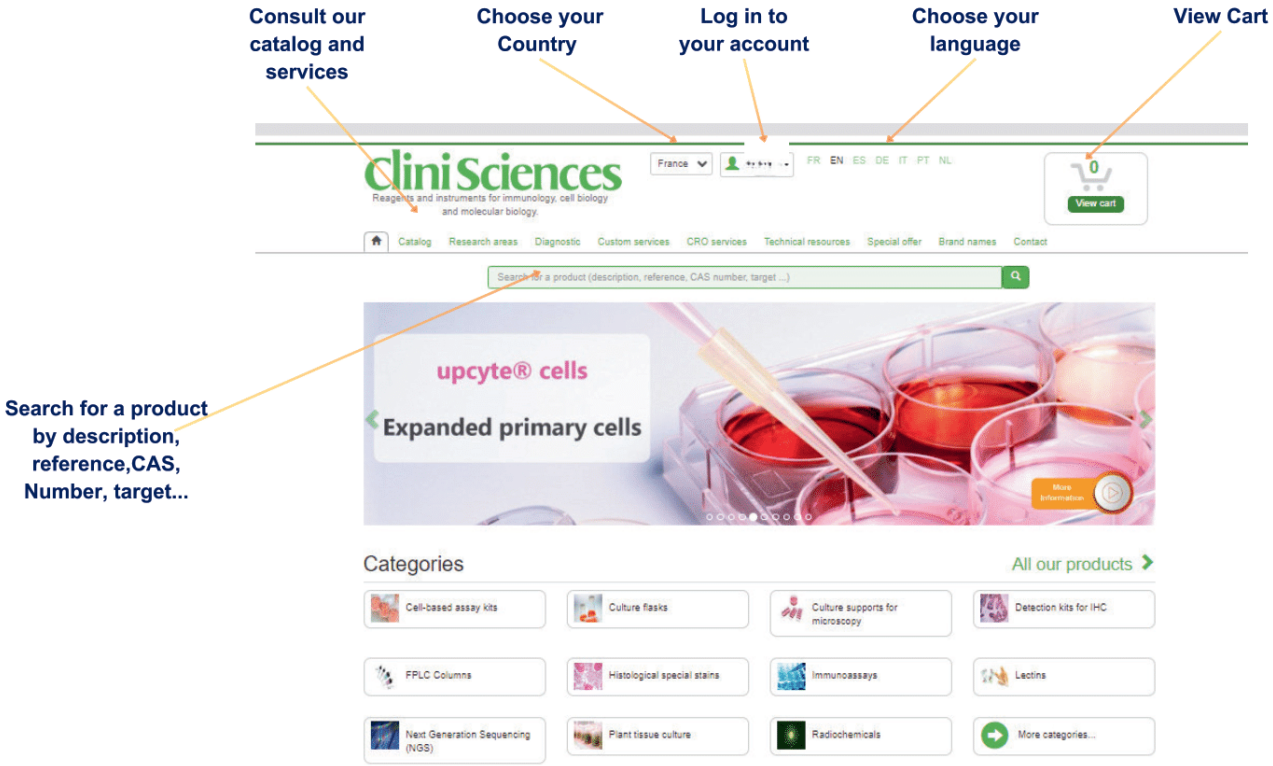
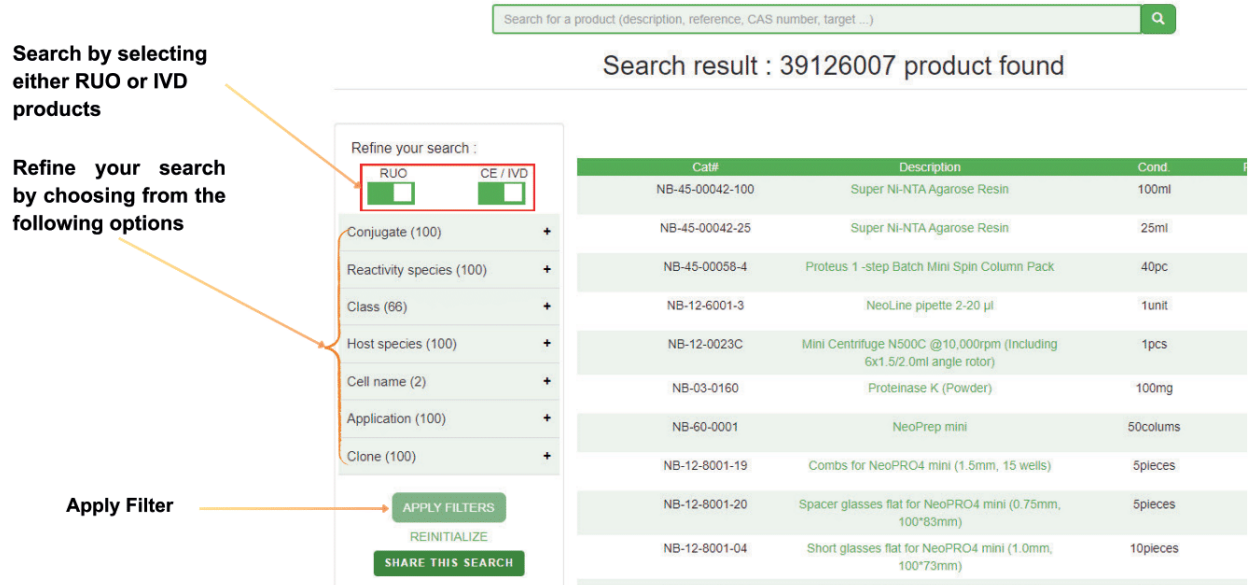
**Homepage:** When you first visit our website, you'll land on the homepage. This is where you can find an overview of our services, products, or any important announcements. From here, you can navigate to other sections of the website.




**Search Bar:** Look for specific Products and equipment

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