



轉染試劑

Transfection Reagents

2013

DNA &/or siRNA轉染試劑

jetPRIME®

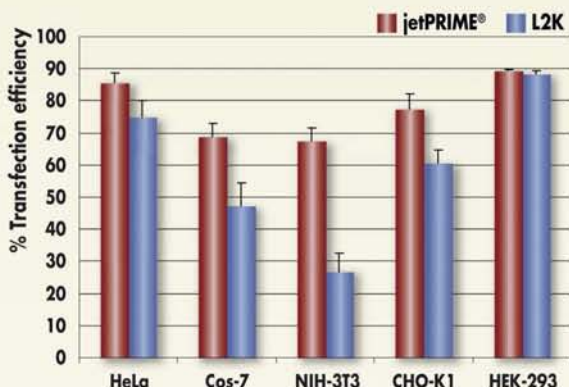
只需使用一種、高效率、多功能的試劑

jetPRIME®是由Polyplus公司研發的最新型轉染試劑，能有效的將DNA和siRNA轉染至多種類型的貼壁細胞中。

jetPRIME®不但具有更高的轉染效率，也需要較少的用量，既符合成本效益，又不會對細胞造成較大的損傷。

● 卓越的DNA轉染效率

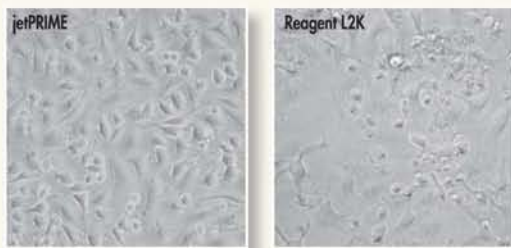
轉染基因的表現量更高



依照操作手冊的建議量，在GFP質體轉染後24小時利用FACS分析檢測

● 細胞存活率高

實驗結果更可信



依照操作手冊的建議量，HeLa細胞轉染24小時後，在顯微鏡下觀察

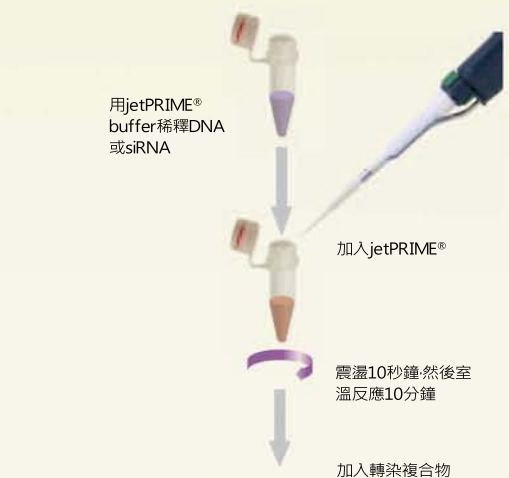
● 節省成本，更經濟

使用較少的試劑，每管試劑可多做2-3倍的實驗

6-well plate			
Reagent	Volume of reagent per well	Amount of DNA per well	Number of transfections per 1.5 ml vial
jetPRIME®	4 µl	2 µg	375
L2K	10 µl	4 µg	150

● 操作簡便，與血清和抗生素兼容

節省時間，轉染前無須更換培養基



反應24-72小時後檢測基因或蛋白的表達情況

jetPRIME®的6孔盤簡易步驟

● 推薦用於HEK-293T和VERO細胞的病毒生產

使用較少的DNA獲得較高的病毒滴度
適用於多個質體的共轉染

● 多功能：DNA、siRNA和共轉染

只需在冷藏櫃中保存一種試劑

● siRNA轉染

10nM siRNA的量可獲得90%以上的基因沉默效率

搜索轉染條件



siRNA 轉染試劑

INTERFERin®

低siRNA濃度轉染·避免脫靶效應

INTERFERin®是新一代siRNA轉染試劑·在眾多的細胞株中·1nM siRNA的量即可獲得90%以上的沉默效率

- 使用1nM siRNA
避免脫靶效應·獲得高基因沉默效率
- 在多種細胞株中·都可獲得高達90%以上的沉默效率
- 操作簡便·與血清和抗生素兼容
節省時間·轉染時無需更換培養基
- 極佳的細胞存活率
可信的實驗結果

Adherent cell lines (1 nM siRNA)	
A549	> 90%
HeLa	
CaSki	
MCF7	
NIH-3T3	
RAW 264.7	
SiHa	60-70%
HepG2	
Primary cells (1 nM siRNA)	
Murine embryonic fibroblasts	> 90%
Primary human fibroblasts	
Primary human hepatocytes	
Suspension cell lines (5 nM siRNA)	
K562	> 80%
THP-1	

用INTERFERin®成功轉染的細胞和沉默效率

體內DNA和siRNA轉染試劑

in vivo-jetPEI®

非病毒方法

in vivo-jetPEI®是適用於體內功能性研究和DNA干擾試驗的轉染試劑。

這種線性聚乙烯衍生物也可用作醫療的載體·治療病毒性疾病和癌症。

- 在體內·成功轉染DNA·siRNA和寡核苷酸
- 適用於多種動物·多種給藥途徑
- 無炎症反應
- 目前用於I期和II期臨床試驗
- 大量文獻可供參考



小鼠成功給藥途徑



高通量篩選 轉染試劑

- INTERFERin®-HTS 用於siRNA
- jetPEI® 用於DNA

- 極高的轉染效率及再現性
- 核酸與轉染試劑的複合物可穩定長達4小時
- 為自動液體處理裝置提供具體的操作步驟

生物生產專用轉染試劑

PEIpro™ 用於蛋白和病毒生產

- 用於不含血清的懸浮性細胞
- 用於培養HEK-293-CHO等懸浮性細胞
- 不含動物源成份
- 適用於細胞培養瓶·搖袋和生物反應器

INTELLECTUAL PROPERTY

The use of any polyethylenimine (PEI) or polypropylenimine (PPI) or cationic polymers similar in structure thereto for transfecting cells, as well as compositions comprising these cationic polymers and at least one nucleic acid, are the subject matter of U.S. Patent No. 6,013,240, EP Patent No. 0770140 and foreign equivalents, for which Polyplus-transfection® is the worldwide exclusive licensee.

www.polyplus-transfection.com

Reagent	Reagent size	Buffer size	Catalog N°
jetPRIME® Transfection reagent + buffer <i>Broad range of adherent cell lines, DNA and/or siRNA transfection</i>	0.1 ml	5 ml	114-01
	0.75 ml	60 ml	114-07
	1.5 ml	2 x 60 ml	114-15
	5 x 1.5 ml	10 x 60 ml	114-75
jetPRIME® Transfection reagent + buffer 5 x conc.	5 x 1.5 ml	120 ml	114-75C
	0.1 ml	-	409-01
INTERFERin® Transfection Reagent <i>siRNA day-to-day transfection</i>	1 ml	-	409-10
	5 x 1 ml	-	409-50
	0.1 ml	10 ml	201-10G
in vivo-jetPEI® Delivery Reagent + glucose sol. <i>DNA and siRNA in vivo delivery</i>	0.5 ml	2 x 10 ml	201-50G
	0.2 ml	-	410-002
INTERFERin®-HTS Transfection Reagent <i>siRNA High Throughput Screening</i>	1.5 ml	-	410-015
	4 x 1.5 ml	-	410-060
	0.1 ml	5 ml	101-01N
jetPEI® Transfection Reagent + NaCl solution <i>DNA High Throughput Screening</i>	1 ml	50 ml	101-10N
	4 x 1 ml	4 x 50 ml	101-40N
	10 ml	2 x 250 ml	101B-010N
	1 ml	-	101-10
jetPEI® DNA Transfection Reagent <i>DNA High Throughput Screening</i>	4 x 1 ml	-	101-40
	10 ml	-	101B-010
	10 ml	-	115-010
PEIpro™ DNA Transfection Reagent <i>Protein & virus production</i>	375 ml	-	115-375
	0.1 ml	5 ml	102-01N
jetPEI®-Hepatocyte Transfection Reagent + NaCl solution <i>DNA transfection into hepatocyte cells</i>	0.5 ml	50 ml	102-05N
	0.1 ml	5 ml	103-01N
jetPEI®-Macrophage Transfection Reagent + NaCl solution <i>DNA transfection into macrophage cells</i>	0.5 ml	50 ml	103-05N
	0.1 ml	5 ml	108-01N
jetPEI®-HUVEC Transfection Reagent + NaCl solution <i>DNA delivery into HUVEC</i>	0.5 ml	50 ml	108-05N
	0.5 ml	50 ml	105-05N
jetPEI®-FluoF Transfection Reagent + NaCl solution, Fluorescent green labeling	0.5 ml	50 ml	105-05N
jetPEI®-FluoR Transfection Reagent + NaCl solution, Fluorescent red labeling	0.5 ml	50 ml	106-05N
FectoFly® Transfection Reagent + NaCl solution <i>DNA transfection into insect cells</i>	0.1 ml	5 ml	112-01N
	1 ml	50 ml	112-10N
PULSin® Protein, Antibody and Peptide Delivery Reagent <i>Hepes solution + 0.2 µL positive control included</i>	0.1 ml	20 ml	501-01
	0.4 ml	20 ml	501-04
jetSI® 10 mM Delivery Reagent, siRNA delivery into the brain	0.5 ml	-	403-05
in vivo-jetPEI®-Gal Delivery Reagent + glucose sol., Galactose-conjugated	0.1 ml	10 ml	202-10G
in vivo-jetPEI®-Man Delivery Reagent + glucose sol., Mannose-conjugated	0.1 ml	10 ml	203-10G
in vivo-jetPEI®-FluoF Delivery Reagent + glucose sol., Fluorescent green labeling	0.1 ml	10 ml	205-10G
in vivo-jetPEI®-FluoR Delivery Reagent + glucose sol., Fluorescent red labeling	0.1 ml	10 ml	206-10G

Polyplus-transfection公司成立於2001年，銷售由Jean-Paul Behr博士實驗室研發的轉染試劑。Jean-Paul Behr博士是全球最優秀的轉染研究專家之一。1989年發表了關於使用多價陽離子脂質體做轉染的開創性文章，由此引起的轉染試劑應用⁽¹⁾至今仍然非常流行。日後更成就了陽離子聚合物聚乙二烯亞胺(PEI)的應用。PEI作為改良的轉染試劑開發於1995年⁽²⁾，與其相關的《質子海綿》轉染範例構成了許多現代轉染試劑的研究基礎。

Polyplus-transfection公司的轉染產品始終保持科學創新的優良傳統，為當今市場提供適於轉染核酸的最好試劑。

(1) J.-P. Behr, B. Demeneix, J.-P. Loeffler, J. Perez-Mutul, "Efficient gene transfer into mammalian primary endocrine cells with lipopolyamine coated DNA", Proc. Natl. Acad. Sci. USA, 86, 6982, 1989.

(2) O. Boussif, F. Lezoualc'h, M.A. Zanta, M.D. Mergny, D. Scherman, B. Demeneix, J.P. Behr, "A versatile vector for gene and oligonucleotide transfer into cells in culture and in vivo: polyethylenimine." Proc. Natl. Acad. Sci. USA, 92, 7297-7301, 1995.

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