



碧云天生物技术/Beyotime Biotechnology  
订货热线: 400-1683301或800-8283301  
订货e-mail: order@beyotime.com  
技术咨询: info@beyotime.com  
网址: http://www.beyotime.com

## 细胞培养用青霉素-链霉素

产品编号	产品名称	包装
ST488	细胞培养用青霉素-链霉素	可配制80L

### 产品简介:

- 细胞培养用青霉素-链霉素(Penicillin-Streptomycin for Cell Culture)为粉剂,是最常用的细胞培养用抗生素(即通常所谓的双抗)。
- 在细胞培养液中推荐的青霉素的工作浓度为100U/ml,链霉素的工作浓度为0.1mg/ml。
- 一个包装的细胞培养用青霉素-链霉素可以配制80L细胞培养液。

### 包装清单:

产品编号	产品名称	包装
ST488-1	青霉素 (1600KU/瓶)	1600KU/瓶×5瓶
ST488-2	链霉素 (1g/瓶)	1g/瓶×8瓶
—	说明书	1份

### 保存条件:

室温保存。4°C保存可以使用更长时间。

### 注意事项:

- 开瓶后需防止受潮。
- 本产品仅限于专业人员的科学研究用,不得用于临床诊断或治疗,不得用于食品或药品,不得存放于普通住宅内。
- 为了您的安全和健康,请穿实验服并戴一次性手套操作。

### 使用说明:

细胞培养用青霉素-链霉素可以参考如下两种方法之一使用:

#### 1. 配制细胞培养液时加入细胞培养用青霉素-链霉素,然后再过滤除菌:

配制细胞培养液时按照青霉素的工作浓度为100U/ml,链霉素的工作浓度为0.1mg/ml进行配制,配制完成后过滤除菌即可使用。

#### 2. 配制青霉素-链霉素溶液(100X)母液,然后再添加到细胞培养液中:

按照青霉素的含量为10KU/ml,链霉素的含量为10mg/ml,配制青霉素-链霉素溶液(100X)母液。过滤除菌后即可按照100倍稀释加入到细胞培养液中使用。配制的母液可以-20°C冻存。

### 使用本产品的文献:

1. Wang PH, Gu ZH, Wan DH, Zhang MY, Weng SP, Yu XQ, He JG. The shrimp NF- $\kappa$ B pathway is activated by white spot syndrome virus (WSSV) 449 to facilitate the expression of WSSV069 (ie1), WSSV303 and WSSV371. *PLoS One*. 2011;6(9):e24773.
2. Xia M, Zhu Y. Signaling pathways of ATP-induced PGE2 release in spinal cord astrocytes are EGFR transactivation-dependent. *Glia*. 2011 Apr;59(4):664-74.
3. He YH, Song Y, Liao XL, Wang L, Li G, A lima, Li Y, Sun CH. The calcium-sensing receptor affects fat accumulation via effects on antilipolytic pathways in adipose tissue of rats fed low-calcium diets. *J N utr*. 2011 Nov;141(11):1938-46.
4. Liu XY, Wei W, Wang CL, Yue H, Ma D, Zhu C, Ma GH, Du YG. Apoferritin-camouflaged Pt nanoparticles: surface effects on cellular uptake and cytotoxicity. *J Mater. Chem.*, 2011,21, 7105-7110.
5. Wang MN, Liu XY, Cao CB, Shi C Synthesis of band-gap tunable Cu-In-S ternary nanocrystals in aqueous solution *RSC Adv*. 2012 Feb; 7:2666-70.
6. Fan H, Yang L, Fu F, Xu H, Meng Q, Zhu H, Teng L, Yang M, Zhang L, Zhang Z, Liu K Cardio protective effects of salvianolic Acid a on myocardial ischemia-reperfusion injury in vivo and in vitro. *Evid Based Complement Alternat Med*. 2012;2012:508938.
7. Zhang J, Tang L, Shen L, Zhou S, Duan Z, Xiao L, Cao Y, Mu X, Zha L, Wang H High level of WAVE1 expression is associated with tumor aggressiveness and unfavorable prognosis of epithelial ovarian cancer. *Gynecol Oncol*. 2012 Oct;127(1):223-30.
8. Zhang Y, Zhang Y, Chen M, Yan J, Ye Z, Zhou Y, Tan W, Lang M. Surface properties of amino-functionalized poly( $\epsilon$ -caprolactone) membranes and the improvement of human mesenchymal stem cell behavior. *J Colloid Interface Sci*. 2012 Feb 15;368(1):64-9.
9. Jiang M, Gan L, Zhu C, Dong Y, Liu J, Gan Y. Cationic core-shell liponanoparticles for ocular gene delivery. *Biomaterials*. 2012 Oct; 33(30):7621-30.
10. Chai YY, Wang F, Li YL, Liu K, Xu H. Antioxidant Activities of Stilbenoids from *Rheum emodi* Wall. *Evid Based Complement Alternat Med*. 2012;2012:603678.
11. Guo S, Sun X, Cheng J, Xu H, Dan J, Shen J, Zhou Q, Zhang Y, Meng L, Cao W, Tian Y. Apoptosis of THP-1 macrophages induced by protoporphyrin IX-mediated sonodynamic therapy. *Int J Nanomedicine*. 2013;8:2239-46.
12. Wang S, Luo Y, Zeng S, Luo C, Yang L, Liang Z, Wang Y. Dodecanol-poly(D,L-lactic acid)-b-poly(ethylene glycol)-folate (Dol-PLA-PEG-FA) nanoparticles: evaluation of cell cytotoxicity and selecting capability in vitro. *Colloids Surf B Biointerfaces*. 2013 Feb 1;102:130-5.

13. Zhou S, Tang L, Wang H, Dai J, Zhang J, Shen L, Ng SW, Berkowitz RS. Overexpression of c-Abl predicts unfavorable outcome in epithelial ovarian cancer. *Gynecol Oncol*. 2013 Oct;131(1):69-76.
14. Xia M, Zhu Y. FOXO3a Involvement in the Release of TNF- $\alpha$  Stimulated by ATP in Spinal Cord Astrocytes. *J Mol Neurosci*. 2013 Nov; 51(3):792-804.
15. Zhou DH, Wang X, Yang M, Shi X, Huang W, Feng Q. Combination of Low Concentration of (-)-Epigallocatechin Gallate (EGCG) and Curcumin Strongly Suppresses the Growth of Non-Small Cell Lung Cancer in Vitro and in Vivo through Causing Cell Cycle Arrest. *Int J Mol Sci*. 2013 Jun 5;14(6):12023-36.
16. Jiang XY, Lu DB, Jiang YZ, Zhou LN, Cheng LQ, Chen B. PGC-1 $\alpha$  prevents apoptosis in adipose-derived stem cells by reducing reactive oxygen species production in adiabatic microenvironment. *Diabetes Res Clin Pract*. 2013 Jun;100(3):368-75.
17. Zhu Q, Guo T, Xia D, Li X, Zhu C, Li H, Ouyang D, Zhang J, Gan Y. Pluronic F127-modified liposome-containing tacrolimus-cyclodextrin inclusion complexes: improved solubility, cellular uptake and intestinal penetration. *J Pharm Pharmacol*. 2013 Aug;65(8):1107-17.
18. Hu HJ, Lin XL, Liu MH, Fan XJ, Zou WW. Curcumin mediates reversion of HGF-induced epithelial-mesenchymal transition via inhibition of c-Met expression in DU145 cells. *Oncol Lett*. 2016 Feb;11(2):1499-1505.
19. Sun C, Feng SB, Cao ZW, Bei JJ, Chen Q, Zhao WB, Xu XJ, Zhou Z, Yu ZP, Hu HY. Up-Regulated Expression of Matrix Metalloproteinases in Endothelial Cells Mediates Platelet Microvesicle-Induced Angiogenesis. *CELL PHYSIOL BIOCHEM*. 2017;41(6):2319-2332.
20. Wang J, Zeng H, Li H, Chen T, Wang L, Zhang K, Chen J, Wang R, Li Q, Wang S. MicroRNA-101 Inhibits Growth, Proliferation and Migration and Induces Apoptosis of Breast Cancer Cells by Targeting Sex-Determining Region Y-Box 2. *CELL PHYSIOL BIOCHEM*. 2017;43(2):717-732.
21. Jiang W, Huang W, Chen Y, Zou M, Peng D, Chen D. HIV-1 Transactivator Protein Induces ZO-1 and Nephrilysin Dysfunction in Brain Endothelial Cells via the Ras Signaling Pathway. *Oxid Med Cell Longev*. 2017;2017:3160360.
22. Li W, Yang Y, Ba Z, Li S, Chen H, Hou X, Ma L, He P, Jiang L, Li L, He R, Zhang L, Feng D. MicroRNA-93 Regulates Hypoxia-Induced Autophagy by Targeting ULK1. *Oxid Med Cell Longev*. 2017;2017:2709053.
23. Hu SY, Zhang Y, Zhu PJ, Zhou H, Chen YD. Liraglutide directly protects cardiomyocytes against reperfusion injury possibly via modulation of intracellular calcium homeostasis. *J Geriatr Cardiol*. 2017 Jan;14(1):57-66.
24. Li W, Wang Z, Zha L, Kong D, Liao G, Li H. HMG A2 regulates epithelial-mesenchymal transition and the acquisition of tumor stem cell properties through TWIST1 in gastric cancer. *Oncol Rep*. 2017 Jan;37(1):185-192.
25. Tang J, Dong Q. Knockdown of TREM-1 suppresses IL-1 $\beta$ -induced chondrocyte injury via inhibiting the NF- $\kappa$ B pathway. *BIOCHEM BIOPH RES CO*. 2017 Jan 22;482(4):1240-1245.
26. Yang T, Cheng J, Yang Y, Qi W, Zhao Y, Long H, Xie R, Zhu B. S100B Mediates Stemness of Ovarian Cancer Stem-Like Cells Through Inhibiting p53. *Stem Cells*. 2017 Feb;35(2):325-336.
27. Sun K, Liu F, Wang J, Guo Z, Ji Z, Yao M. The effect of mechanical stretch stress on the differentiation and apoptosis of human growth plate chondrocytes. *IN VITRO CELL DEV-AN*. 2017 Feb;53(2):141-148.
28. Peng L, Wang R, Shang J, Xiong Y, Fu Z. Peroxiredoxin 2 is associated with colorectal cancer progression and poor survival of patients. *ONCOTARGET*. 2017 Feb 28;8(9):15057-15070.
29. Li L, Guan Q, Dai S, Wei W, Zhang Y. Integrin  $\beta$ 1 Increases Stem Cell Survival and Cardiac Function after Myocardial Infarction. *Front Pharmacol*. 2017 Mar 17;8:135.
30. Sui Y, Yao H, Li S, Jin L, Shi P, Li Z, Wang G, Lin S, Wu Y, Li Y, Huang L, Liu Q, Lin X. Delicaflavone induces autophagic cell death in lung cancer via Akt/mTOR/p70S6K signaling pathway. *J MOL MED*. 2017 Mar;95(3):311-322.
31. Zuo S, Ge H, Li Q, Zhang X, Hu R, Hu S, Liu X, Zhang JH, Chen Y, Feng H. Artesunate Protected Blood-Brain Barrier via Sphingosine 1 Phosphate Receptor1/Phosphatidylinositol 3 Kinase Pathway After Subarachnoid Hemorrhage in Rats. *Mol Neurobiol*. 2017 Mar;54(2):1213-1228.
32. Shen XQ, Geng YM, Liu P, Huang XY, Li SY, Liu CD, Zhou Z, Xu PP. Magnitude-dependent response of osteoblasts regulated by compressive stress. *SCI REP-UK*. 2017 Mar 20;7:44925.
33. Yang R, Wei L, Fu QQ, You H, Yu HR. SOD3 Ameliorates A $\beta$  25-35-Induced Oxidative Damage in SH-SY5Y Cells by Inhibiting the Mitochondrial Pathway. *Cell Mol Neurobiol*. 2017 Apr;37(3):513-525.
34. Lin H, Zhao L, Ma X, Wang BC, Deng XY, Cui M, Chen SF, Shao ZW. Drp1 mediates compression-induced programmed necrosis of rat nucleus pulposus cells by promoting mitochondrial translocation of p53 and nuclear translocation of AIF. *BIOCHEM BIOPH RES CO*. 2017 May 20;487(1):181-188.
35. Zhang C, Zhou G, Cai C, Li J, Chen F, Xie L, Wang W, Zhang Y, Lai X, Ma L. Human umbilical cord mesenchymal stem cells alleviate acute myocarditis by modulating endoplasmic reticulum stress and extracellular signal regulated 1/2-mediated apoptosis. *Mol Med Rep*. 2017 Jun;15(6):3515-3520.
36. Zhang EF, Hou ZX, Shao T, Yang WW, Hu B, Wang XX, Zhang ZX, Huang Y, Xiong LZ, Hou LC. Combined administration of a sedative dose sevoflurane and 60% oxygen reduces inflammatory responses to sepsis in animals and in human PMBCs. *Am J Transl Res*. 2017 Jun 15;9(6):3105-3119.
37. Shi S, Zhong D, Xiao Y, Wang B, Wang W, Zhang F, Huang H. Syndecan-1 knockdown inhibits glioma cell proliferation and invasion by deregulating a c-src/FAK-associated signaling pathway. *ONCOTARGET*. 2017 Jun 20;8(25):40922-40934.
38. Lin XL, Hu HJ, Liu YB, Hu XM, Fan XJ, Zou WW, Pan YQ, Zhou WQ, Peng MW, Gu CH. Allicin induces the upregulation of ABCA1 expression via PPAR $\gamma$ /LXR $\alpha$  signaling in THP-1 macrophage-derived foam cells. *Int J Mol Med*. 2017 Jun;39(6):1452-1460.
39. Peng K, Yang L, Wang J, Ye F, Dan G, Zhao Y, Cai Y, Cui Z, Ao L, Liu J, Zou Z, Sai Y, Cao J. The Interaction of Mitochondrial Biogenesis and Fission/Fusion Mediated by PGC-1 $\alpha$  Regulates Rotenone-Induced Dopaminergic Neurotoxicity. *Mol Neurobiol*. 2017 Jul;54(5):3783-3797.
40. Liu Z, Zeng W, Wang S, Zhao X, Guo Y, Yu P, Yin X, Liu C, Huang T. A potential role for the Hippo pathway protein, YAP, in controlling proliferation, cell cycle progression, and autophagy in BCPAP and KI thyroid papillary carcinoma cells. *Am J Transl Res*. 2017 Jul 15;9(7):3212-3223.
41. Ge Z, Diao H, Yu M, Ji X, Liu Q, Chang X, Wu Q. Connexin 43 mediates changes in protein phosphorylation in HK-2 cells during chronic cadmium exposure. *ENVIRON TOXICOL CHEM*. 2017 Jul;53:184-190.
42. Zhu YM, Gao X, Ni Y, Li W, Kent TA, Qiao SG, Wang C, Xu XX, Zhang HL. Sevoflurane postconditioning attenuates reactive astrogliosis and glial scar formation after ischemia-reperfusion brain injury. *Neuroscience*. 2017 Jul 25;356:125-141.
43. Wei JL, Fang M, Fu ZX, Zhang SR, Guo JB, Wang R, Lv ZB, Xiong YF. Sestrin 2 suppresses cells proliferation through AMPK/mTORC1 pathway activation in colorectal cancer. *ONCOTARGET*. 2017 Jul 25;8(30):49318-49328.
44. Zhao L, Yang Y, Yin S, Yang T, Luo J, Xie R, Long H, Jiang L, Zhu B. CTCF promotes epithelial ovarian cancer metastasis by broadly controlling the expression of metastasis-associated genes. *ONCOTARGET*. 2017 Jul 10;8(37):62217-62230.
45. Fu QQ, Wei L, Sierra J, Cheng JZ, Moreno-Flores MT, You H, Yu HR. Olfactory Ensheathing Cell-Conditioned Medium Reverts A $\beta$  25-35-Induced Oxidative Damage in SH-SY5Y Cells by Modulating the Mitochondria-Mediated Apoptotic Pathway. *Cell Mol Neurobiol*. 2017 Aug;37(6):1043-1054.
46. Wang T, Liu YP, Wang T, Xu BQ, Xu B. ROS feedback regulates the microRNA-19-targeted inhibition of the p47phox-mediated LPS-induced inflammatory response. *BIOCHEM BIOPH RES CO*. 2017 Aug 5;489(4):361-368.
47. Zhu Y, Wang L, Yu H, Yin F, Wang Y, Liu H, Jiang L, Qin J. In situ generation of human brain organoids on a micropillar array. *Lab Chip*. 2017 Aug 22;17(17):2941-2950.
48. Liu C, Liu J, Hao Y, Gu Y, Yang Z, Li H, Li R. 6,7,3',4'-Tetrahydroxyisoflavone improves the survival of whole-body-irradiated mice via restoration of hematopoietic function. *Int J Radiat Biol*. 2017 Aug;93(8):793-802.
49. Liao Q, Zhang R, Wang X, Nian W, Ke L, Ouyang W, Zhang Z. Effect of fluoride exposure on mRNA expression of cav1.2 and calcium signal pathway apoptosis regulators in PC12 cells. *ENVIRON TOXICOL CHEM*. 2017 Sep;54:74-79.

50. Pan S, Cui Y, Dong X, Zhang T, Xing H. MicroRNA-130b attenuates dexamethasone-induced increase of lipid accumulation in porcine preadipocytes by suppressing PPAR- $\gamma$  expression. *ONCOTARGET*. 2017 Sep 27;8(50):87928-87943.
51. Zhong Y, Jin C, Gan J, Wang X, Shi Z, Xia X, Peng X. Apigenin attenuates patulin-induced apoptosis in HEK293 cells by modulating ROS-mediated mitochondrial dysfunction and caspase signal pathway. *Toxicol*. 2017 Oct;137:106-113.
52. Yin L, Huang D, Liu X, Wang Y, Liu J, Liu F, Yu B. Omentin-1 effects on mesenchymal stem cells: proliferation, apoptosis, and angiogenesis in vitro. *Stem Cell Res Ther*. 2017 Oct 10;8(1):224.
53. Tang X, Zha L, Li H, Liao G, Huang Z, Peng X, Wang Z. Upregulation of GNL3 expression promotes colon cancer cell proliferation, migration, invasion and epithelial-mesenchymal transition via the Wnt/ $\beta$ -catenin signaling pathway. *Oncol Rep*. 2017 Oct;38(4):2023-2032.
54. Wu S, Wu F, Jiang Z. Identification of hub genes, key miRNAs and potential molecular mechanisms of colorectal cancer. *Oncol Rep*. 2017 Oct;38(4):2043-2050.
55. Wang X, Chen G, Huang C, Tu H, Zou J, Yan J. Bone marrow stem cells-derived extracellular matrix is a promising material. *ONCOTARGET*. 2017 Oct 9;8(58):98336-98347.
56. Sun R, Yin L, Zhang S, He L, Cheng X, Wang A, Xia H, Shi H. Simple Light-Triggered Fluorescent Labeling of Silica Nanoparticles for Cellular Imaging Applications. *Chemistry*. 2017 Oct 9;23(56):13893-13896.
57. Lin H, Ma X, Wang BC, Zhao L, Liu JX, Pu FF, Hu YQ, Hu HZ, Shao ZW. Edaravone ameliorates compression-induced damage in rat nucleus pulposus cells. *Life Sci*. 2017 Nov 15;189:76-83.
58. Sun G, Sui X, Han D, Gao J, Liu Y, Zhou L. TRIM59 promotes cell proliferation, migration and invasion in human hepatocellular carcinoma cells. *Pharmazie*. 2017 Nov 1;72(11):674-679.
59. Zhu Y, Wang L, Yin F, Yu Y, Wang Y, Shepard MJ, Zhuang Z, Qin J. Probing impaired neurogenesis in human brain organoids exposed to alcohol. *INTEGR BIOL-UK*. 2017 Dec 11;9(12):968-978.
60. Shan Y, Wang Y, Li J, Shi H, Fan Y, Yang J, Ren W, Yu X. Biomechanical properties and cellular biocompatibility of 3D printed tracheal graft. *Bioprocess Biosyst Eng*. 2017 Dec;40(12):1813-1823.
61. Liu H, Wu B, Ge Y, Huang J, Song S, Wang C, Yao J, Liu K, Li Y, Li Y, Ma X. Phosphamide-containing diphenylpyrimidine analogues (PA-DPPYs) as potent focal adhesion kinase (FAK) inhibitors with enhanced activity against pancreatic cancer cell lines. *BIOORG MED CHEM LETT*. 2017 Dec 15;25(24):6313-6321.
62. Lin XL, Liu M, Liu Y, Hu H, Pan Y, Zou W, Fan X, Hu X. Transforming growth factor  $\beta$  1 promotes migration and invasion in HepG2 cells: Epithelial-to-mesenchymal transition via JAK/STAT3 signaling. *Int J Mol Med*. 2018 Jan;41(1):129-136.
63. Duan C, Liu Y, Li Y, Chen H, Liu X, Chen X, Yue J, Zhou X, Yang J. Sulfasalazine alters microglia phenotype by competing endogenous RNA effect of miR-136-5p and long non-coding RNA HOTAIR in cuprizone-induced demyelination. *Biochem Pharmacol*. 2018 Sep;155:110-123.
64. Zhou X, Li T, Chen Y, Zhang N, Wang P, Liang Y, Long M, Liu H, Mao J, Liu Q, Sun X, Chen H. Mesenchymal stem cell-derived extracellular vesicles promote the in vitro proliferation and migration of breast cancer cells through the activation of the ERK pathway. *Int J Oncol*. 2019 May;54(5):1843-1852.
65. Zheng W, Liu C. The cystathionine  $\gamma$ -lyase/hydrogen sulfide pathway mediates the trimetazidine-induced protection of H9c2 cells against hypoxia/reoxygenation-induced apoptosis and oxidative stress. *Anatol J Cardiol*. 2019 Sep;22(3):102-111.
66. Lou K, Huang P, Ma H, Wang X, Xu H, Wang W. Orlistat increases arsenite tolerance in THP-1 derived macrophages through the up-regulation of ABCA1. *Drug Chem Toxicol*. 2019 Oct 31:1-9.
67. Liang S, Wang F, Bao C, Han J, Guo Y, Liu F, Zhang Y. BAG2 ameliorates endoplasmic reticulum stress-induced cell apoptosis in Mycobacterium tuberculosis-infected macrophages through selective autophagy. *Autophagy*. 2019 Nov 11:1-15.
68. Yuan K, Lai C, Wei L, Feng T, Yang Q, Zhang T, Lan T, Yao Y, Xiang G, Huang X. The Effect of Vascular Endothelial Growth Factor on Bone Marrow Mesenchymal Stem Cell Engraftment in Rat Fibrotic Liver upon Transplantation. *Stem Cells Int*. 2019 Dec 4;2019:5310202.

Version 2021.11.04