

References for Products 22802 and 22803

1. Perevoshchikova IV, Sorochkina AI, Zorov DB, Antonenko YN. (2009) Safranin O as a fluorescent probe for mitochondrial membrane potential studied on the single particle level and in suspension. *Biochemistry (Mosc)*, 74, 663.
2. Chalmers S, McCarron JG. (2008) The mitochondrial membrane potential and Ca²⁺ oscillations in smooth muscle. *J Cell Sci*, 121, 75.
3. Distelmaier F, Koopman WJ, Testa ER, de Jong AS, Swarts HG, Mayatepek E, Smeitink JA, Willems PH. (2008) Life cell quantification of mitochondrial membrane potential at the single organelle level. *Cytometry A*, 73, 129.
4. Guthrie HD, Welch GR. (2008) Determination of high mitochondrial membrane potential in spermatozoa loaded with the mitochondrial probe 5,5',6,6'-tetrachloro-1,1',3,3'-tetraethylbenzimidazolyl-carbocyanine iodide (JC-1) by using fluorescence-activated flow cytometry. *Methods Mol Biol*, 477, 89.
5. Koopman WJ, Distelmaier F, Esseling JJ, Smeitink JA, Willems PH. (2008) Computer-assisted live cell analysis of mitochondrial membrane potential, morphology and calcium handling. *Methods*, 46, 304.
6. Labios M, Martinez M, Gabriel F, Guiral V, Ruiz-Aja S, Beltran B, Munoz A. (2008) Effects of eprosartan on mitochondrial membrane potential and H₂O₂ levels in leucocytes in hypertension. *J Hum Hypertens*, 22, 493.
7. Ramadass R, Bereiter-Hahn J. (2008) How DASPMI reveals mitochondrial membrane potential: fluorescence decay kinetics and steady-state anisotropy in living cells. *Biophys J*, 95, 4068.
8. Verburg J, Hollenbeck PJ. (2008) Mitochondrial membrane potential in axons increases with local nerve growth factor or semaphorin signaling. *J Neurosci*, 28, 8306.
9. Xia XY, Wu YM, Hou BS, Yang B, Pan LJ, Shi YC, Jin BF, Shao Y, Cui YX, Huang YF. (2008) [Evaluation of sperm mitochondrial membrane potential by JC-1 fluorescent staining and flow cytometry]. *Zhonghua Nan Ke Xue*, 14, 135.
10. Andersen AZ, Poulsen AK, Brasen JC, Olsen LF. (2007) On-line measurements of oscillating mitochondrial membrane potential in glucose-fermenting *Saccharomyces cerevisiae*. *Yeast*, 24, 731.
11. Ding XF, Shang XJ, Li HG, Guan HT, Xiong CL. (2007) [Effect of urokinase-type plasminogen activator on the mitochondrial membrane potential of mouse capacitated-spermatozoa in vitro]. *Zhonghua Nan Ke Xue*, 13, 391.
12. Gaskova D, DeCorby A, Lemire BD. (2007) DiS-C3(3) monitoring of in vivo mitochondrial membrane potential in *C. elegans*. *Biochem Biophys Res Commun*, 354, 814.
13. Solaini G, Sgarbi G, Lenaz G, Baracca A. (2007) Evaluating mitochondrial membrane potential in cells. *Biosci Rep*, 27, 11.
14. van der Toorn M, Kauffman HF, van der Deen M, Slebos DJ, Koeter GH, Gans RO, Bakker SJ. (2007) Cyclosporin A-induced oxidative stress is not the consequence of an increase in mitochondrial membrane potential. *Febs J*, 274, 3003.
15. Jilkina O, Kong HJ, Hwi L, Kuzio B, Xiang B, Manley D, Jackson M, Kupriyanov VV. (2006) Interaction of a mitochondrial membrane potential-sensitive dye, rhodamine 800, with rat mitochondria, cells, and perfused hearts. *J Biomed Opt*, 11, 014009.
16. Zurgil N, Shafran Y, Afrimzon E, Fixler D, Shainberg A, Deutsch M. (2006) Concomitant real-time monitoring of intracellular reactive oxygen species and mitochondrial membrane potential in individual living promonocytic cells. *J Immunol Methods*, 316, 27.
17. Feldkamp T, Kribben A, Weinberg JM. (2005) Assessment of mitochondrial membrane potential in proximal tubules after hypoxia-reoxygenation. *Am J Physiol Renal Physiol*, 288, F1092.
18. Kataoka M, Fukura Y, Shinohara Y, Baba Y. (2005) Analysis of mitochondrial membrane potential in the cells by microchip flow cytometry. *Electrophoresis*, 26, 3025.
19. Saotome M, Katoh H, Satoh H, Nagasaka S, Yoshihara S, Terada H, Hayashi H. (2005) Mitochondrial membrane potential modulates regulation of mitochondrial Ca²⁺ in rat ventricular myocytes. *Am J Physiol Heart Circ Physiol*, 288, H1820.

20. Sun CK, Zhang XY, Sheard PW, Mabuchi A, Wheatley AM. (2005) Change in mitochondrial membrane potential is the key mechanism in early warm hepatic ischemia-reperfusion injury. *Microvasc Res*, 70, 102.
21. Tong V, Teng XW, Chang TK, Abbott FS. (2005) Valproic acid II: effects on oxidative stress, mitochondrial membrane potential, and cytotoxicity in glutathione-depleted rat hepatocytes. *Toxicol Sci*, 86, 436.
22. Verhoeven AJ, Verhaar R, Gouwerok EG, de Korte D. (2005) The mitochondrial membrane potential in human platelets: a sensitive parameter for platelet quality. *Transfusion*, 45, 82.
23. Bolduc JS, Denizeau F, Jumarie C. (2004) Cadmium-induced mitochondrial membrane-potential dissipation does not necessarily require cytosolic oxidative stress: studies using rhodamine-123 fluorescence unquenching. *Toxicol Sci*, 77, 299.
24. Chen JC, Zhang X, Singleton TP, Kiechle FL. (2004) Mitochondrial membrane potential change induced by Hoechst 33342 in myelogenous leukemia cell line HL-60. *Ann Clin Lab Sci*, 34, 458.
25. Gavish L, Asher Y, Becker Y, Kleinman Y. (2004) Low level laser irradiation stimulates mitochondrial membrane potential and disperses subnuclear promyelocytic leukemia protein. *Lasers Surg Med*, 35, 369.
26. Jones A, Van Blerkom J, Davis P, Toledo AA. (2004) Cryopreservation of metaphase II human oocytes effects mitochondrial membrane potential: implications for developmental competence. *Hum Reprod*, 19, 1861.
27. Marchetti C, Jouy N, Leroy-Martin B, Defossez A, Formstecher P, Marchetti P. (2004) Comparison of four fluorochromes for the detection of the inner mitochondrial membrane potential in human spermatozoa and their correlation with sperm motility. *Hum Reprod*, 19, 2267.
28. Saris NE, Teplova VV, Odinkova IV, Azarashvily TS. (2004) Interference of calmidazolium with measurement of mitochondrial membrane potential using the tetraphenylphosphonium electrode or the fluorescent probe rhodamine 123. *Anal Biochem*, 328, 109.
29. Baracca A, Sgarbi G, Solaini G, Lenaz G. (2003) Rhodamine 123 as a probe of mitochondrial membrane potential: evaluation of proton flux through F(0) during ATP synthesis. *Biochim Biophys Acta*, 1606, 137.
30. Iijima T, Mishima T, Tohyama M, Akagawa K, Iwao Y. (2003) Mitochondrial membrane potential and intracellular ATP content after transient experimental ischemia in the cultured hippocampal neuron. *Neurochem Int*, 43, 263.
31. Menke T, Gille G, Reber F, Janetzky B, Andler W, Funk RH, Reichmann H. (2003) Coenzyme Q10 reduces the toxicity of rotenone in neuronal cultures by preserving the mitochondrial membrane potential. *Biofactors*, 18, 65.
32. Reungpatthanaphong P, Dechsupa S, Meesungnoen J, Loetchutinat C, Mankhetkorn S. (2003) Rhodamine B as a mitochondrial probe for measurement and monitoring of mitochondrial membrane potential in drug-sensitive and -resistant cells. *J Biochem Biophys Methods*, 57, 1.
33. Van Blerkom J, Davis P, Alexander S. (2003) Inner mitochondrial membrane potential ($\Delta\psi$), cytoplasmic ATP content and free Ca^{2+} levels in metaphase II mouse oocytes. *Hum Reprod*, 18, 2429.
34. Vergun O, Votyakova TV, Reynolds IJ. (2003) Spontaneous changes in mitochondrial membrane potential in single isolated brain mitochondria. *Biophys J*, 85, 3358.
35. Wilding M, De Placido G, De Matteo L, Marino M, Alviggi C, Dale B. (2003) Chaotic mosaicism in human preimplantation embryos is correlated with a low mitochondrial membrane potential. *Fertil Steril*, 79, 340.
36. Zuliani T, Duval R, Jayat C, Schnebert S, Andre P, Dumas M, Ratinaud MH. (2003) Sensitive and reliable JC-1 and TOTO-3 double staining to assess mitochondrial transmembrane potential and plasma membrane integrity: interest for cell death investigations. *Cytometry A*, 54, 100.

37. Barbu A, Welsh N, Saldeen J. (2002) Cytokine-induced apoptosis and necrosis are preceded by disruption of the mitochondrial membrane potential ($\Delta\psi(m)$) in pancreatic RINm5F cells: prevention by Bcl-2. *Mol Cell Endocrinol*, 190, 75.
38. Dykens JA, Fleck B, Ghosh S, Lewis M, Velicelebi G, Ward MW. (2002) High-throughput assessment of mitochondrial membrane potential in situ using fluorescence resonance energy transfer. *Mitochondrion*, 1, 461.
39. Huang SG. (2002) Development of a high throughput screening assay for mitochondrial membrane potential in living cells. *J Biomol Screen*, 7, 383.
40. Kasai T, Ogawa K, Mizuno K, Nagai S, Uchida Y, Ohta S, Fujie M, Suzuki K, Hirata S, Hoshi K. (2002) Relationship between sperm mitochondrial membrane potential, sperm motility, and fertility potential. *Asian J Androl*, 4, 97.
41. Wong A, Cortopassi GA. (2002) High-throughput measurement of mitochondrial membrane potential in a neural cell line using a fluorescence plate reader. *Biochem Biophys Res Commun*, 298, 750.
42. Buckman JF, Hernandez H, Kress GJ, Votyakova TV, Pal S, Reynolds IJ. (2001) MitoTracker labeling in primary neuronal and astrocytic cultures: influence of mitochondrial membrane potential and oxidants. *J Neurosci Methods*, 104, 165.
43. Buckman JF, Reynolds IJ. (2001) Spontaneous changes in mitochondrial membrane potential in cultured neurons. *J Neurosci*, 21, 5054.
44. Dykens JA, Stout AK. (2001) Assessment of mitochondrial membrane potential in situ using single potentiometric dyes and a novel fluorescence resonance energy transfer technique. *Methods Cell Biol*, 65, 285.
45. Farrelly E, Amaral MC, Marshall L, Huang SG. (2001) A high-throughput assay for mitochondrial membrane potential in permeabilized yeast cells. *Anal Biochem*, 293, 269.
46. Kindmark H, Kohler M, Brown G, Branstrom R, Larsson O, Berggren PO. (2001) Glucose-induced oscillations in cytoplasmic free Ca^{2+} concentration precede oscillations in mitochondrial membrane potential in the pancreatic beta-cell. *J Biol Chem*, 276, 34530.
47. Ludovico P, Sansonetty F, Corte-Real M. (2001) Assessment of mitochondrial membrane potential in yeast cell populations by flow cytometry. *Microbiology*, 147, 3335.
48. Sharikabad MN, Ostbye KM, Brors O. (2001) Increased $[Mg^{2+}]_o$ reduces Ca^{2+} influx and disruption of mitochondrial membrane potential during reoxygenation. *Am J Physiol Heart Circ Physiol*, 281, H2113.
49. Facompre M, Wattez N, Kluza J, Lansiaux A, Bailly C. (2000) Relationship between cell cycle changes and variations of the mitochondrial membrane potential induced by etoposide. *Mol Cell Biol Res Commun*, 4, 37.
50. Follstad BD, Wang DI, Stephanopoulos G. (2000) Mitochondrial membrane potential differentiates cells resistant to apoptosis in hybridoma cultures. *Eur J Biochem*, 267, 6534.
51. Gautier I, Geeraert V, Coppey J, Coppey-Moisan M, Durieux C. (2000) A moderate but not total decrease of mitochondrial membrane potential triggers apoptosis in neuron-like cells. *Neuroreport*, 11, 2953.
52. Keij JF, Bell-Prince C, Steinkamp JA. (2000) Staining of mitochondrial membranes with 10-nonyl acridine orange, MitoFluor Green, and MitoTracker Green is affected by mitochondrial membrane potential altering drugs. *Cytometry*, 39, 203.
53. Ward MW, Rego AC, Frenguelli BG, Nicholls DG. (2000) Mitochondrial membrane potential and glutamate excitotoxicity in cultured cerebellar granule cells. *J Neurosci*, 20, 7208.
54. Ylitalo KV, Ala-Rami A, Liimatta EV, Peuhkurinen KJ, Hassinen IE. (2000) Intracellular free calcium and mitochondrial membrane potential in ischemia/reperfusion and preconditioning. *J Mol Cell Cardiol*, 32, 1223.
55. Garner DL, Thomas CA. (1999) Organelle-specific probe JC-1 identifies membrane potential differences in the mitochondrial function of bovine sperm. *Mol Reprod Dev*, 53, 222.
56. Huser J, Blatter LA. (1999) Fluctuations in mitochondrial membrane potential caused by repetitive gating of the permeability transition pore. *Biochem J*, 343 Pt 2, 311.

57. Scaduto RC, Jr., Grotyohann LW. (1999) Measurement of mitochondrial membrane potential using fluorescent rhodamine derivatives. *Biophys J*, 76, 469.
58. Zhang D, Berry MD, Paterson IA, Boulton AA. (1999) Loss of mitochondrial membrane potential is dependent on the apoptotic program activated: prevention by R-2HMP. *J Neurosci Res*, 58, 284.
59. Kulkarni GV, Lee W, Seth A, McCulloch CA. (1998) Role of mitochondrial membrane potential in concanavalin A-induced apoptosis in human fibroblasts. *Exp Cell Res*, 245, 170.
60. Rottenberg H, Wu S. (1998) Quantitative assay by flow cytometry of the mitochondrial membrane potential in intact cells. *Biochim Biophys Acta*, 1404, 393.
61. Budd SL, Castilho RF, Nicholls DG. (1997) Mitochondrial membrane potential and hydroethidine-monitored superoxide generation in cultured cerebellar granule cells. *FEBS Lett*, 415, 21.
62. Camins A, Sureda FX, Gabriel C, Pallas M, Escubedo E, Camarasa J. (1997) Modulation of neuronal mitochondrial membrane potential by the NMDA receptor: role of arachidonic acid. *Brain Res*, 777, 69.
63. Hagen TM, Yowe DL, Bartholomew JC, Wehr CM, Do KL, Park JY, Ames BN. (1997) Mitochondrial decay in hepatocytes from old rats: membrane potential declines, heterogeneity and oxidants increase. *Proc Natl Acad Sci U S A*, 94, 3064.
64. Sureda FX, Escubedo E, Gabriel C, Comas J, Camarasa J, Camins A. (1997) Mitochondrial membrane potential measurement in rat cerebellar neurons by flow cytometry. *Cytometry*, 28, 74.
65. Troyan MB, Gilman VR, Gay CV. (1997) Mitochondrial membrane potential changes in osteoblasts treated with parathyroid hormone and estradiol. *Exp Cell Res*, 233, 274.
66. Palmeira CM, Moreno AJ, Madeira VM, Wallace KB. (1996) Continuous monitoring of mitochondrial membrane potential in hepatocyte cell suspensions. *J Pharmacol Toxicol Methods*, 35, 35.
67. Sureda FX, Escubedo E, Gabriel C, Camarasa J, Camins A. (1996) Effect of glutamate receptor ligands on mitochondrial membrane potential in rat dissociated cerebellar cells. *Naunyn Schmiedebergs Arch Pharmacol*, 354, 420.
68. Cossarizza A, Cooper EL, Quagliano D, Salvioli S, Kalachnikova G, Franceschi C. (1995) Mitochondrial mass and membrane potential in coelomocytes from the earthworm *Eisenia foetida*: studies with fluorescent probes in single intact cells. *Biochem Biophys Res Commun*, 214, 503.
69. Di Lisa F, Blank PS, Colonna R, Gambassi G, Silverman HS, Stern MD, Hansford RG. (1995) Mitochondrial membrane potential in single living adult rat cardiac myocytes exposed to anoxia or metabolic inhibition. *J Physiol*, 486 (Pt 1), 1.
70. Miura S, Fukumura D, Shiozaki H, Suzuki M, Kurose I, Suematsu M, Tsuchiya M, Ishii H. (1995) Bile acid-induced depolarization of mitochondrial membrane potential preceding cell injury in cultured gastric mucosal cells. *J Gastroenterol Hepatol*, 10, 621.
71. Reers M, Smiley ST, Mottola-Hartshorn C, Chen A, Lin M, Chen LB. (1995) Mitochondrial membrane potential monitored by JC-1 dye. *Methods Enzymol*, 260, 406.
72. Ahmed I, Krishnamoorthy G. (1994) Anomalous response of oxonol-V to membrane potential in mitochondrial proton pumps. *Biochim Biophys Acta*, 1188, 131.
73. Danave IR, Tiffany-Castiglioni E, Zenger E, Barhoumi R, Burghardt RC, Collisson EW. (1994) Feline immunodeficiency virus decreases cell-cell communication and mitochondrial membrane potential. *J Virol*, 68, 6745.
74. Grant RL, Acosta D, Jr. (1994) A digitized fluorescence imaging study on the effects of local anesthetics on cytosolic calcium and mitochondrial membrane potential in cultured rabbit corneal epithelial cells. *Toxicol Appl Pharmacol*, 129, 23.
75. Schneider K, Naujok A, Zimmermann HW. (1994) Influence of trans-membrane potential and of hydrophobic interactions on dye accumulation in mitochondria of living cells. Photoaffinity labelling of mitochondrial proteins, action of potential dissipating drugs, and competitive staining. *Histochemistry*, 101, 455.
76. Cossarizza A, Baccarani-Contri M, Kalashnikova G, Franceschi C. (1993) A new method for the cytofluorimetric analysis of mitochondrial membrane potential using the J-

- aggregate forming lipophilic cation 5,5',6,6'-tetrachloro-1,1',3,3'-tetraethylbenzimidazolcarbocyanine iodide (JC-1). *Biochem Biophys Res Commun*, 197, 40.
77. Hahn KM, Conrad PA, Chao JC, Taylor DL, Waggoner AS. (1993) A photocross-linking fluorescent indicator of mitochondrial membrane potential. *J Histochem Cytochem*, 41, 631.
 78. Pieri C, Recchioni R, Moroni F. (1993) Age-dependent modifications of mitochondrial trans-membrane potential and mass in rat splenic lymphocytes during proliferation. *Mech Ageing Dev*, 70, 201.
 79. Duchen MR, Biscoe TJ. (1992) Relative mitochondrial membrane potential and $[Ca^{2+}]_i$ in type I cells isolated from the rabbit carotid body. *J Physiol*, 450, 33.
 80. Rahn CA, Bombick DW, Doolittle DJ. (1991) Assessment of mitochondrial membrane potential as an indicator of cytotoxicity. *Fundam Appl Toxicol*, 16, 435.
 81. Fuchs J, Zimmer G, Thurich T, Bereiter-Hahn J, Packer L. (1990) Noninvasive fluorometric measurement of mitochondrial membrane potential in isolated working rat hearts during ischemia and reperfusion. *Methods Enzymol*, 186, 723.
 82. Grouselle M, Tueux O, Dabadie P, Georgescaud D, Mazat JP. (1990) Effect of local anaesthetics on mitochondrial membrane potential in living cells. *Biochem J*, 271, 269.
 83. Wojtczak L, Nalecz MJ, Famulski KS, Dygas A, Szewczyk A. (1987) Does the energy state of mitochondria influence the surface potential of the inner mitochondrial membrane? A critical appraisal. *Acta Biochim Pol*, 34, 299.
 84. Hassinen I. (1986) Optical monitoring of mitochondrial membrane potential in intact myocardium and its application to the development of tissue injury caused by calcium readmission to the isolated perfused heart. *Adv Exp Med Biol*, 200, 531.
 85. Gulyaeva NV, Konoshenko GI, Mokhova EN. (1985) Mitochondrial membrane potential in lymphocytes as monitored by fluorescent cation diS-C3-(5). *Membr Biochem*, 6, 19.
 86. Kauppinen RA, Hassinen IE. (1984) Monitoring of mitochondrial membrane potential in isolated perfused rat heart. *Am J Physiol*, 247, H508.
 87. Rafael J, Nicholls DG. (1984) Mitochondrial membrane potential monitored in situ within isolated guinea pig brown adipocytes by a styryl pyridinium fluorescent indicator. *FEBS Lett*, 170, 181.
 88. Tanabe K, Murakami K. (1984) Reduction in the mitochondrial membrane potential of *Toxoplasma gondii* after invasion of host cells. *J Cell Sci*, 70, 73.
 89. Mewes HW, Rafael J. (1981) The 2-(dimethylaminostyryl)-1-methylpyridinium cation as indicator of the mitochondrial membrane potential. *FEBS Lett*, 131, 7.
 90. Kinnally KW, Tedeschi H, Maloff BL. (1978) Use of dyes to estimate the electrical potential of the mitochondrial membrane. *Biochemistry*, 17, 3419.
 91. Tedeschi H. (1974) Mitochondrial membrane potential: evidence from studies with a fluorescent probe. *Proc Natl Acad Sci U S A*, 71, 583.
 92. Widlansky ME, Wang J, Shenouda SM, Hagen TM, Smith AR, Kizhakekuttu TJ, Kluge MA, Weihrauch D, Gutterman DD, Vita JA. Altered mitochondrial membrane potential, mass, and morphology in the mononuclear cells of humans with type 2 diabetes. *Transl Res*, 156, 15.