

References for Products 3001-3086

1. Urbano N, Papi S, Ginanneschi M, De Santis R, Pace S, Lindstedt R, Ferrari L, Choi S, Paganelli G, Chinol M. (2006) Evaluation of a new biotin-DOTA conjugate for pretargeted antibody-guided radioimmunotherapy (PAGRIT((R))). *Eur J Nucl Med Mol Imaging*.
2. Bogusiewicz A, Mock NI, Mock DM. (2005) A biotin-protein bond with stability in plasma. *Anal Biochem*, 337, 98.
3. Huhtinen P, Soukka T, Lovgren T, Harma H. (2004) Immunoassay of total prostate-specific antigen using europium(III) nanoparticle labels and streptavidin-biotin technology. *J Immunol Methods*, 294, 111.
4. Addo JK, Buolamwini JK. (2004) Design, synthesis, and evaluation of 5'-S-aminoethyl-N(6)-azidobenzyl-5'-thioadenosine biotin conjugate: a bifunctional photoaffinity probe for the es nucleoside transporter. *Bioconjug Chem*, 15, 536.
5. Langereis S, Kooistra HA, van Genderen MH, Meijer EW. (2004) Probing the interaction of the biotin-avidin complex with the relaxivity of biotinylated Gd-DTPA. *Org Biomol Chem*, 2, 1271.
6. McKay BE, Molineux ML, Turner RW. (2004) Biotin is endogenously expressed in select regions of the rat central nervous system. *J Comp Neurol*, 473, 86.
7. Bogusiewicz A, Mock NI, Mock DM. (2004) Instability of the biotin-protein bond in human plasma. *Anal Biochem*, 327, 156.
8. Berkowitz A. (2002) Endogenous biotin staining in a subset of spinal neuronal cell bodies: a potential confounding factor for neuroanatomical studies. *Brain Res*, 938, 98.
9. Valeri CR, Pivacek LE, Cassidy GP, Ragno G. (2002) Volume of RBCs, 24- and 48-hour posttransfusion survivals, and the lifespan of (51)Cr and biotin-X-N-hydroxysuccinimide (NHS)-labeled autologous baboon RBCs: effect of the anticoagulant and blood pH on (51)Cr and biotin-X-NHS elution in vivo. *Transfusion*, 42, 343.
10. Xu H, Zhang S, Liu D, Liang CC. (2001) End-labeling of long DNA fragments with biotin and detection of DNA immobilized on magnetic beads. *Mol Biotechnol*, 17, 183.
11. Gonzalez-Garcia MB, Fernandez-Sanchez C, Costa-Garcia A. (2000) Colloidal gold as an electrochemical label of streptavidin-biotin interaction. *Biosens Bioelectron*, 15, 315.
12. Hofstetter H, Morpurgo M, Hofstetter O, Bayer EA, Wilchek M. (2000) A labeling, detection, and purification system based on 4-hydroxyazobenzene-2-carboxylic acid: an extension of the avidin-biotin system. *Anal Biochem*, 284, 354.
13. Grosvenor AL, Feltus A, Conover RC, Daunert S, Anderson KW. (2000) Development of binding assays in microfabricated picoliter vials: an assay for biotin. *Anal Chem*, 72, 2590.
14. Rodgers JT, Patel P, Hennes JL, Bologna SL, Mascotti DP. (2000) Use of biotin-labeled nucleic acids for protein purification and agarose-based chemiluminescent electromobility shift assays. *Anal Biochem*, 277, 254.
15. van Bommel MR, de Jong AP, Tjaden UR, Irth H, van der Greef J. (1999) Enzyme amplification as detection tool in continuous-flow systems. II. On-line coupling of liquid chromatography to enzyme-amplified biochemical detection after pre-column derivatization with biotin. *J Chromatogr A*, 855, 397.
16. Morris PD, Raney KD. (1999) DNA helicases displace streptavidin from biotin-labeled oligonucleotides. *Biochemistry*, 38, 5164.
17. Mock DM, Lankford GL, Widness JA, Burmeister LF, Kahn D, Strauss RG. (1999) Measurement of red cell survival using biotin-labeled red cells: validation against 51Cr-labeled red cells. *Transfusion*, 39, 156.
18. Duffy S, Tsao KL, Waugh DS. (1998) Site-specific, enzymatic biotinylation of recombinant proteins in *Spodoptera frugiperda* cells using biotin acceptor peptides. *Anal Biochem*, 262, 122.
19. Franco RS, Lohmann J, Silberstein EB, Mayfield-Pratt G, Palascak M, Nemeth TA, Joiner CH, Weiner M, Rucknagel DL. (1998) Time-dependent changes in the density and hemoglobin F content of biotin-labeled sickle cells. *J Clin Invest*, 101, 2730.

20. Scarfi S, Gasparini A, Damonte G, Benatti U. (1997) Synthesis, uptake, and intracellular metabolism of a hydrophobic tetrapeptide-peptide nucleic acid (PNA)-biotin molecule. *Biochem Biophys Res Commun*, 236, 323.
21. Ridley BL, Spiro MD, Glushka J, Albersheim P, Darvill A, Mohnen D. (1997) A method for biotin labeling of biologically active oligogalacturonides using a chemically stable hydrazide linkage. *Anal Biochem*, 249, 10.
22. Hoffmann-Fezer G, Trastl C, Beisker W, Berg D, Obermaier J, Kessler W, Mysliwietz J, Schumm M, Filser J, Thierfelder S. (1997) Preclinical evaluation of biotin labeling for red cell survival testing. *Ann Hematol*, 74, 231.
23. Pattanapanyasat K, Yongvanitchit K, Heppner DG, Tongtawe P, Kyle DE, Webster HK. (1996) Culture of malaria parasites in two different red blood cell populations using biotin and flow cytometry. *Cytometry*, 25, 287.
24. Rusckowski M, Paganelli G, Hnatowich DJ, Magnani P, Virzi F, Fogarasi M, DiLeo C, Sudati F, Fazio F. (1996) Imaging osteomyelitis with streptavidin and indium-111-labeled biotin. *J Nucl Med*, 37, 1655.
25. de Haas RR, Verwoerd NP, van der Corput MP, van Gijswijk RP, Siitari H, Tanke HJ. (1996) The use of peroxidase-mediated deposition of biotin-tyramide in combination with time-resolved fluorescence imaging of europium chelate label in immunohistochemistry and in situ hybridization. *J Histochem Cytochem*, 44, 1091.
26. Olejnik J, Krzymanska-Olejnik E, Rothschild KJ. (1996) Photocleavable biotin phosphoramidite for 5'-end-labeling, affinity purification and phosphorylation of synthetic oligonucleotides. *Nucleic Acids Res*, 24, 361.
27. El'kina VA, Rozanov A. (1996) [The effect of calcium chloride on the distribution, protein binding and catabolism of ¹⁴C-biotin in the body of white mice]. *Fiziol Zh*, 42, 72.
28. Li QX, Casida JE. (1995) Affinity probes for the GABA-gated chloride channel: 5e-tert-butyl-2e-[4-(substituted-ethynyl)phenyl]-1,3-dithianes with photoactivatable, fluorescent, biotin, agarose and protein substituents. *Bioorg Med Chem*, 3, 1675.
29. Li X, James WM, Traganos F, Darzynkiewicz Z. (1995) Application of biotin, digoxigenin or fluorescein conjugated deoxynucleotides to label DNA strand breaks for analysis of cell proliferation and apoptosis using flow cytometry. *Biotech Histochem*, 70, 234.
30. Emans N, Biwersi J, Verkman AS. (1995) Imaging of endosome fusion in BHK fibroblasts based on a novel fluorimetric avidin-biotin binding assay. *Biophys J*, 69, 716.
31. Pintado CO, Moreno A, Barbancho M, Perez de la Lastra JM, Llanes D. (1995) The beta chain of the GPIIb molecule on ruminant leukocytes and platelets is not labelled by the sulfo-NHS-biotin method. *Vox Sang*, 69, 248.
32. Wright JD, Rawson KM, Ho WO, Athey D, McNeil CJ. (1995) Specific binding assay for biotin based on enzyme channelling with direct electron transfer electrochemical detection using horseradish peroxidase. *Biosens Bioelectron*, 10, 495.
33. Rusckowski M, Fogarasi M, Virzi F, Hnatowich DJ. (1995) Influence of endogenous biotin on the biodistribution of labelled biotin derivatives in mice. *Nucl Med Commun*, 16, 38.
34. O'Neill JW, Bier E. (1994) Double-label in situ hybridization using biotin and digoxigenin-tagged RNA probes. *Biotechniques*, 17, 870.
35. Jeong JM, Kinuya S, Paik CH, Saga T, Sood VK, Carrasquillo JA, Neumann RD, Reynolds JC. (1994) Application of high affinity binding concept to radiolabel avidin with Tc-99m labeled biotin and the effect of pI on biodistribution. *Nucl Med Biol*, 21, 935.
36. Chapman-Smith A, Turner DL, Cronan JE, Jr., Morris TW, Wallace JC. (1994) Expression, biotinylation and purification of a biotin-domain peptide from the biotin carboxy carrier protein of Escherichia coli acetyl-CoA carboxylase. *Biochem J*, 302 (Pt 3), 881.
37. Levy-Toledano R, Caro LH, Hindman N, Taylor SI. (1993) Streptavidin blotting: a sensitive technique to study cell surface proteins; application to investigate autophosphorylation and endocytosis of biotin-labeled insulin receptors. *Endocrinology*, 133, 1803.
38. Lebedeva IV, Ivanovskaya MG, Gurinovich TI, Gottykh MB, Meldrais Ia A, Shabarova ZA. (1993) [Design of a universal biotin-containing oligonucleotide diagnostic kit for detecting viroid plant diseases]. *Bioorg Khim*, 19, 894.

39. Hoffmann-Fezer G, Mysliwietz J, Mortlbauer W, Zeitler HJ, Eberle E, Honle U, Thierfelder S. (1993) Biotin labeling as an alternative nonradioactive approach to determination of red cell survival. *Ann Hematol*, 67, 81.
40. Remy I, Brossier P. (1993) Atomic absorption spectrometric detection of biotin-cyantrrene as a metallo-tracer for the avidin-biotin system. *Analyst*, 118, 1021.
41. Paganelli G, Magnani P, Fazio F. (1993) Pretargeting of carcinomas with the avidin-biotin system. *Int J Biol Markers*, 8, 155.
42. Tyshchenko DV, Rozanova ZA. (1993) [Distribution of 1-[14C] GABA and its conjugates with nicotinate, pyridoxal phosphate and biotin in tissues of guinea pigs in closed systems]. *Fiziol Zh*, 39, 33.
43. Shahidi S, Poronnik P, Barden JA, Cook DI. (1993) Structure-function relations of biotin derivatives of apamin. *Biochim Biophys Acta*, 1157, 74.
44. Bradburne JA, Godfrey P, Choi JH, Mathis JN. (1993) In vivo labeling of *Escherichia coli* cell envelope proteins with N-hydroxysuccinimide esters of biotin. *Appl Environ Microbiol*, 59, 663.
45. Brandt HM, Apkarian AV. (1992) Biotin-dextran: a sensitive anterograde tracer for neuroanatomic studies in rat and monkey. *J Neurosci Methods*, 45, 35.
46. Stein J, Hahn A, Lembcke B, Rehner G. (1992) High-performance liquid chromatographic determination of biotin in biological materials after crown ether-catalyzed fluorescence derivatization with panacyl bromide. *Anal Biochem*, 200, 89.
47. Deziel MR, Mau MM. (1990) Biotin-conjugated reagents as site-specific probes of membrane protein structure: application to the study of the human erythrocyte hexose transporter. *Anal Biochem*, 190, 297.
48. Piran U, Riordan WJ. (1990) Dissociation rate constant of the biotin-streptavidin complex. *J Immunol Methods*, 133, 141.
49. Hill DE, Fetterer RH, Urban JF, Jr. (1990) Biotin as a probe of the surface of *Ascaris suum* developmental stages. *Mol Biochem Parasitol*, 41, 45.
50. Madras BK, Canfield DR, Pfaelzer C, Vittimberga FJ, Jr., Difiglia M, Aronin N, Bakthavachalam V, Baird N, Neumeyer JL. (1990) Fluorescent and biotin probes for dopamine receptors: D1 and D2 receptor affinity and selectivity. *Mol Pharmacol*, 37, 833.
51. Mutayoba BM, Meyer HH, Schams D, Schallenberger E. (1990) Development of a sensitive enzyme immunoassay for LH determination in bovine plasma using the streptavidin-biotin technique. *Acta Endocrinol (Copenh)*, 122, 227.
52. Le Guellec D, Frappart L, Willems R. (1990) Ultrastructural localization of fibronectin mRNA in chick embryo by *in situ* hybridization using 35S or biotin labeled cDNA probes. *Biol Cell*, 70, 159.
53. Antal M, Freund TF, Somogyi P, McIlhinney RA. (1990) Simultaneous anterograde labelling of two afferent pathways to the same target area with *Phaseolus vulgaris* leucoagglutinin and *Phaseolus vulgaris* leucoagglutinin conjugated to biotin or dinitrophenol. *J Chem Neuroanat*, 3, 1.
54. Zaidi NF, Lagenauf CF, Hilkert RJ, Xiong H, Abramson JJ, Salama G. (1989) Disulfide linkage of biotin identifies a 106-kDa Ca²⁺ release channel in sarcoplasmic reticulum. *J Biol Chem*, 264, 21737.
55. Busch G, Hoder D, Reutter W, Tauber R. (1989) Selective isolation of individual cell surface proteins from tissue culture cells by a cleavable biotin label. *Eur J Cell Biol*, 50, 257.
56. Herrington CS, Burns J, Graham AK, Evans M, McGee JO. (1989) Interphase cytogenetics using biotin and digoxigenin labelled probes I: relative sensitivity of both reporter molecules for detection of HPV16 in CaSki cells. *J Clin Pathol*, 42, 592.
57. Richterich P. (1989) Non-radioactive chemical sequencing of biotin labelled DNA. *Nucleic Acids Res*, 17, 2181.
58. Cavill I, Trevett D, Fisher J, Hoy T. (1988) The measurement of the total volume of red cells in man: a non-radioactive approach using biotin. *Br J Haematol*, 70, 491.
59. Ogita T, Knowles JR. (1988) On the intermediacy of carboxyphosphate in biotin-dependent carboxylations. *Biochemistry*, 27, 8028.

60. Vilja P, Wichmann L, Isola J, Tuohimaa P. (1988) Monoclonal antibody-based noncompetitive avidin-biotin assay for lutropin in urine. *Clin Chem*, 34, 1585.
61. Bayer EA, Ben-Hur H, Wilchek M. (1988) Biocytin hydrazide--a selective label for sialic acids, galactose, and other sugars in glycoconjugates using avidin-biotin technology. *Anal Biochem*, 170, 271.
62. Crum CP, Nuovo G, Friedman D, Silverstein SJ. (1988) A comparison of biotin and isotope-labeled ribonucleic acid probes for in situ detection of HPV-16 ribonucleic acid in genital precancers. *Lab Invest*, 58, 354.
63. Bayer EA, Safars M, Wilchek M. (1987) Selective labeling of sulphydryls and disulfides on blot transfers using avidin-biotin technology: studies on purified proteins and erythrocyte membranes. *Anal Biochem*, 161, 262.
64. Bayer EA, Ben-Hur H, Wilchek M. (1987) Enzyme-based detection of glycoproteins on blot transfers using avidin-biotin technology. *Anal Biochem*, 161, 123.
65. Gosden JR, Porteous DJ. (1987) HRAS1-selected, chromosome mediated gene transfer; in situ hybridization with combined biotin and tritium label localizes the oncogene and reveals duplications of the human genome. *Cytogenet Cell Genet*, 45, 44.
66. Gore J, Hoinard C, Maingault P. (1986) Biotin uptake by isolated rat intestinal cells. *Biochim Biophys Acta*, 856, 357.
67. Delius H, van Heerikhuizen H, Clarke J, Koller B. (1985) Separation of complementary strands of plasmid DNA using the biotin-avidin system and its application to heteroduplex formation and RNA/DNA hybridizations in electron microscopy. *Nucleic Acids Res*, 13, 5457.
68. Menissier J, Hunting DJ, De Murcia G. (1985) Electron microscopic mapping of single-stranded discontinuities in cauliflower mosaic virus DNA by means of the biotin-avidin technique. *Anal Biochem*, 148, 339.
69. Piffeteau A, Gaudry M. (1985) Biotin uptake: influx, efflux and countertransport in *Escherichia coli* K12. *Biochim Biophys Acta*, 816, 77.
70. Childs GV, Naor Z, Hazum E, Tibolt R, Westlund KN, Hancock MB. (1983) Localization of biotinylated gonadotropin releasing hormone on pituitary monolayer cells with avidin-biotin-peroxidase complexes. *J Histochem Cytochem*, 31, 1422.
71. Frigg M, Torhorst J. (1982) Autoradiographic localisation of 3H-biotin in chick tissues. *Int J Vitam Nutr Res*, 52, 417.
72. Gilad GM, Gilad VH. (1981) Cytochemical localization of ornithine decarboxylase with rhodamine or biotin-labeled alpha-difluoromethylornithine. An example for the use of labeled irreversible enzyme inhibitors as cytochemical markers. *J Histochem Cytochem*, 29, 687.
73. Gebauer CR, Rechnitz GA. (1980) Ion selective electrode estimation of avidin and biotin using a lysozyme label. *Anal Biochem*, 103, 280.
74. Bayer EA, Skutelsky E, Viswanatha T, Wilchek M. (1978) Specific localization and quantification of biotin transport components in yeast by use of a biotin-conjugated, impermeant, electron-dense label. *Mol Cell Biochem*, 19, 23.
75. Fung CH, Gupta RK, Mildvan AS. (1976) Magnetic resonance studies of the proximity and spatial arrangement of propionyl coenzyme A and pyruvate on a biotin-metalloenzyme, transcarboxylase. *Biochemistry*, 15, 85.
76. Bhagavan HN, Coursin DB. (1976) In vivo incorporation of glucose carbon into brain and liver proteins in biotin-deficient rats. *J Nutr Sci Vitaminol (Tokyo)*, 22, 79.
77. Sinha BK, Chignell CF. (1975) Synthesis and biological activity of spin-labeled analogs of biotin, hexamethonium, decamethonium, dichlorisoproterenol, and propranolol. *J Med Chem*, 18, 669.
78. Shimada K. (1967) [Attempt to label biotin with sulfur-35 by *Aspergillus niger*]. *Yakugaku Zasshi*, 87, 351.
79. Eisenberg MA. (1966) The biosynthesis of biotin in growing yeast cells: The formation of biotin from an early intermediate. *Biochem J*, 101, 598.