-continued

Abbreviation	Explanation
WCB	working cell bank
WTR	growth rate
ZDG	total cell density
ZDL	viable cell density

REFERENCES

Alberts, B. J. et al. (2002). *Molecular Biology of the cell*, Garland Science.
Bailey, J. and D. 011 is (1986). *Biochemical Engineering Fundamentals*, McGraw-Hill.
BD_Biosciences (2000) Manual Part Number 11-11032-01.
Bell S L, et al. (1995) Enzyme Microb Technol 17: 98
Bloemkolk, J. et al. (1992) *Biotechnol Bioeng* 40:427-431.
Bollati Fogolin, M., et al. (2002) *Electron. J. Biotechnol.*
Bollati Fogolin, et al. (2001) Proceeding of the 17th ESACT Meeting, Tylösand, Kluwer Academic Publishers, Dordrecht, The Netherlands.
Bollati Fogolin, M., et al. (2003) *J. Biotechnol.* 109 (2004): 179-191.
Bond, J. and J. Varley (2005). *Cytometry* Part A (64A): 43-50.
Bresnahan, W. A., et al. (1996) *Virology* 224: 150-160.
Büntemeyer, H. (1988) Entwicklung eines Perfusionsprozesses zur kontinuierlichen Kultivierung tierischer Zellen in Suspension. Hannover, Universität Hannover.
Büntemeyer, H., et al. (1991). *Cytotechnol.* 5: 57-67.
Chen, K., et al. (2001) Biotechnol. Bioeng. 72:55
Cherlet, M., et al. (1999) *Biotechnol Prog* 15(4): 630-9.
Chow, S. and D. Hedley (1997) *Current Protocols in Flow Cytometry,* 9.3.1-9.3.10, John Wiley & Sons, Inc.
Chow, S., et al. (1996) *Cytometry* 24(4): 360-7.
deZengotita, V. M., et al. (2002) *Biotechnol. Bioeng.* 77(4): 369-380.
Dittmer, D. and E. S. Mocarski (1997) *J. Virol.* 71: 1629-1634.
Engasser, J. M., et al. (1996) *Flow cytometry applications in cell culture*. M. Al-Rubeai and A. N. Emery. New York, Marcel Dekker.
Etcheverrigaray, M., (1998) *Animal Cell Technology: New Developments, New Applications*. J. B. Griffiths, Merten, O. W. (Ed.), Kluwer Academic Publishers, Dordrecht, The Netherlands.
Frahm, B., et al. (2002) *J Biotechnol* 99(2): 133-48.
Givan, A. L. (1992). *Flow Cytometry: First Principles* New York, Wiley-Liss.
Grinstein, S., et al. (1989). *Biochim. Biophys. Acta* 988: 73-97.
Hauser, H. and R. Wagner (1997) *J Biotechnol* 59(1-2): 103-115.
Hu, W. S., et al. (2007) An advanced course in cellular bioprocess technology—Fundamentals and frontiers. Garmisch-Partenkirchen.
Irani, N., et al. (1999). *Biotechnol. Bioeng.* 66: 238-246.
Jockwer, A., et al. (2005) *Pressurisable sampling device for representative measurement of dissolved gases in large-scale fermentation processes*. Vortrag Bioperspectives 2005, Wiesbaden.
Jockwer, A., et al. (2005) DE 10 2005 020 985.8-41.
Kaufmann, H. M., (1999) *Biotechnol Bioeng* 3: 573-582.
Kim, M. S., et al. (2002) *In Vitro Cell. Dev. Biol. Animal* 38: 314-319.
Kimura, R. M. et al. (1996) *Biotechnol Bioeng* 52(1): 152-160.
Klinger, C. (2006) Diplom Thesis. Weihenstephan, University of Applied Sciences Weihenstephan.
Langheinrich, C. (1999) *Biotechnol. Bioeng.* 66(3).
Lim, C. K. (1987). HPLC of small molecules—a practical approach. Oxford, IRL Press, Oxford.
Link, T. (2003) Thesis Mathematisch-Naturwissenschaftliche Fakultät. Bonn, Rheinische Friedrich-Wilhelms-Universität Bonn.
Link, T. et al. (2004) Journal of Biotechnology 110: 51-62
Madshus, I. H. (1988) *Biochem. J.* 250:1-8.
Melamed, M: R. (1990). *Flow Cytometry and Sorting* New York, Wiley-Liss.
Moore, A. M., et al. (1997) *Cytotechnology* 23: 47-54.
Osman, J. J., et al. (2001) *Biotechnol Bioeng* 75(1): 63-73.
Osman, J. J., et al. (2002) *Biotechnol Bioeng* 79(4): 398-407.
Owen, C. S. (1991). *Anal. Biochem.* 204: 65-71.
Owen, C. S., et al. (1992) *J. Fluorescence* 2(2): 75-80.
Parker, C. (1990) *Methods Enzymol.* 182: 700-718.
Paredes C, et al. (1999) Cytotechnology 30: 85
Pattison, R. N., et al. (2000) *Biotechnol Prog* 16: 769-774.
Rake, H. (1993) Umdruck zur Vorlesung Regelungstechnik A and Ergänzungen (Regelungstechnik B). Aachen, RWTH Aachen.
Reusch, H. P., et al. (1995) *Am. J. Physiol.* 268: C147-C153.
Schmelzer, A. E., et al. (2000) *Biotechnol Bioeng* 67(2): 189-96.
Shapiro, H. (1994) *Practical Flow Cytometry.* 3*rd ed*. New York, Alan R. Liss.
Stucka, R., et al. (1991) *Mol. Gen. Genet.* 229: 307-315.
Thomas, J. A., et al. (1979) *Biochemistry* 18: 2210-2218.
Thomas, R. (1995) *Nature* 374(6523): 597-598.
Wagner, R., et al. (1998) Process for the improvement of the primary energy metabolism of mammalian cell lines
Welsh, J. P. and M. Al-Rubeai (1996) in *Flow Cytometry: Application in cell culture*. M. E. Al-Rubeai, A. N. New York, Marcel Dekker Inc.: 163-175.
Wu, P., et al. (1993) *Biotechnol Prog* 9(4): 374-84.
Wurm, F. M. (2004) *Nature Biotechnology* 22: 553-558.
Zhangi, J. A., et al. (1999) *Biotechnol Bioeng* 65: 182-191.
"DNA Sequences in Chromosomes II and VII Code for Pyruvate Carboxylase Isoenzymes in *Saccharomyces Cerevisiae*: Analysis of Pyruvate Carboxylase-Deficient Strains", Stucka et al., Mol Gen Genet 229, pp. 307-315, 1991.

The invention claimed is:

1. A method for the recombinant production of a polypeptide in a eukaryotic host cell modified in the citrate cycle to express a cytosolic pyruvate carboxylase, the method comprising the following steps:

(a) cultivating the eukaryotic host cell in a suitable medium under conditions which allow the expression of the polypeptide, wherein the content of dissolved CO_2 in the medium is maintained at a constant value in the range of 10% to 20% of the saturated solution of CO_2 under a given set of conditions, and wherein a base is added to adjust the pH of the medium; and

(b) recovering the polypeptide from the cell or from the medium.

2. The method of claim **1**, wherein the host cell is an animal cell.

3. The method of claim **2**, wherein the animal cell is a mammalian cell.

4. The method of claim **3**, wherein the mammalian cell is a CHO, BHK, hybridoma or myeloma cell.

5. The method of claim **1**, wherein the host cell modified in the citrate cycle is a cell which expresses a cytosolic pyruvate carboxylase.