

Animal Cell Culture and Microbial Bioprocess Development

αϞÒÁà»Ϟ¹ÁÒ

ÉéÍ§»Ô°ÑμÔ;ÒÃ Animal Cell Culture ÁÕ·Ø´àÃÔèÁμé¹·Ò; ;ÒÃÈÖ;ÉÒà¼ÒÐàÃÔéÁ§à«ÁÁìáÁÁ§ áÁÐ á°μϞÔϞáÁäÇÃÑÈ à¼×é à»ÃμÕ¹·Ñ´á»Á§·Ò; ;ÃÐ°Ϟ¹;ÒÃ¼Ñ¹ ØϞÔÈϞ;ÃÃÁá¼×éÍáéá¹·Ò§;ÒÃá¼·Áì »Ñ···Ø°Ñ¹á´éϞ·ÁÒ·ÁϞ¹°ϞèÒÁ§Ò¹á»¶Ò§ ;ÒÃá¼ÒÐàÃÔ submerge culture ÍÑ¹·Ð¹Òá»ÈÙè¼ÁÔμÁÑ³±; áÁÐ ;ÒÃϞ·ÁÒ·ÁϞ¹·Ò´;ÒÃ¼ÁÔμà¼×éÍáéá¹·ÒμÈÖ;ÃÃÁ·Ñé§μé¹¹éÓáÁÐ»ÁÒÁ¹éÓ §Ò¹Ϟ· à¼×éÍá´é¼ÁÔμÁÑ³±·Òè¹Òá»áéá´é··ÁÔ§·Ñé§·Ò§;ÒÃà;ÉμÁ áÁÐ »ÈØÈÑμϞ; ÁϞ·Áá»¶Ò§·Ò§;ÒÈÈÒÁ áÁÐ ;ÒÃá¼·Áì á¹¹·Òμ Á

ϞÑμ¶Ϟ»ÃÐÈ§μ

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¼Ñ²¹Ò;ÒÃá¼ÒÐàÃÔéÁ§à«ÁÁì áÁÐ·ØÁÔ¹·ÃÔÁìÍÁèÒ§ÁÔ»ÃÐÈ·,ÒÁÒ¼ áé¹

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;ÒÃÈÒÈÒÁ·´á¹«ÒÃÑÁá¹ÍÒÈÒÁàÃÔéÁ§à«ÁÁìà¼×éÍÁ´μé¹·Ø¹

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;ÒÃÈÖ;ÉÒ;ÒÃà;ÒÐμÑϞ·Í§à«ÁÁì°¹áÁáμÁáμÁÔáÍÁì

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¼Ñ²¹Ò;ÃÐ°Ϟ¹;ÒÃÈ;Ñ´ áÁÐ·Ó°ÃÔÈØ·,Òì¼Á¼ÁÔμ·Ò; «ÁÁì áÁÐ·ØÁÔ¹·ÃÔÁì

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¼Ñ²¹Ò;ÒÃϞ·ÁÒ·ÁϞ¹·Ò´;ÒÃ¼ÁÔμÈÙèÃÐ·Ñ°μé¹á°° áÁÐ ¶èÒÁ·Í·à·μá¹áÁÁÔ

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¼Ñ²¹Ò;ÃÐ°Ϟ¹;ÒÃ¼ÁÔμá¹μÔó¹·Ôé (Monoclonal Antibody áÁÐ IgY antibody)

à«ÁÁíáÁÐ·ØÁÔ¹·ÃÕÂì·ÕèÈÏ;ÉÒÇÔ·ÑÂ

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à«ÁÁíáÁÁ§ : Spodoptera flugiperda (SF9) , Spodoptera exigua (Se) , Heliotis zea (Hz)

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à«ÁÁíÈÑµÇìàÁÕéÁ§ÁÛì´éÇÁ¹Á : Hybridoma cell. CHO cell, MDCK

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á°µ·ÕàÃÕÂ : Bacillus subtilis , Lactic acid bacteria

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ÁÕËµì : Sacchaormyces cerievisiae , Phaffia rodozyma

ìÁÐèÁµÁÒ´ áÁÐ ¼ÁÔµÁÑ³±ì à»éÒËÁÒÂ

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àìÉµÃ :

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ÈÒÁìÓ·Ñ´áÁÁ§ÈÑµÁÛ¼×ç à»ç¹¼ÁÔìäÇÃÑÈ·ÕèÁÕµÇÒÁ´Óà¼ÒÐµéíáÁÁ§ÈÑµÁÛ¼×ª ÈÒÁÒÁ¶ãªé©Õ´¼è¹ à¼×èíµÇ°µØÁ

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·ØÁÔ¹·ÃÕÂì à¼×èì;ÒÃ°ÓÑ´¹éÓàÈÕÂ áÁÐµÇ°µØÁàª×éíÃÒã¹¹ÒçéÒÇ à»ç¹µé¹

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»ÈØÈÑµÇì :

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â»Ãä°áíµÔµ à»ç¹ à«ÁÁí·ØÁÔ¹·ÃÕÂì·ÕèÁÕªÒÇÔµ·ÕèàçéÒà»µÃí°µÃí§¼×é¹·Õèã¹·Ò§à´Ò¹ÒÈÒÃçí§ÈÑµÇì·Ó áÈéÁ´íÑµÁÒ;ì

Lactococcus acidophilus & Saccharomyces cerevisiae

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ÍÒËÒÃËÑµÇì áÁÐ ËÒÃàËÃÒÃã¹ËÑµÇì ÍÒËÒÃËÑµÇì àªè¹ÇéÒÇà¾'ËÃÑ; ËÓËÃÑºÇÑÇ¹Á ËèÇ¹ËÒÃàËÃÒÃã¹Ë ËÒÃÍÒËÒÃ.Ç
«Òè§ÍÁÙèã¹ÁÙ».ÒèËÑµÇìËÒÃÒÃ¹Òã»ãªéã'élÁèÒ§ÁÇ'áÁÇÇ áÁÐ ¢èÇÁ;ÁÐµØé¹ ÁÙÁÒµØéÁ;Ñ¹ã¹ËÑµÇì

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ÇÑµ«Ò¹ËÑµÇì àªè¹ ÇÑµ«Ò¹»él§;Ñ¹ã¹Á µºÁµàÁµã¹ ÇÑÇ

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ªØ'µÃÇ" àªè¹ªØ'µÃÇ"µÇÒÁàµÃÒÃ'ã¹ËÑµÇì;él¹;ÒÃãËéÇÑµ«Ò¹ à¾×èlá¾ÒèÁ»ÃÐËÒ.ÒÁÒ¾;ÒÃãËéÇÑµ«Ò¹

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ÍÒËÒÃ :

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ËÒÃ»ÃØ§áµè§ÃË àªè¹;ÒÃ¼ÁÒµËÒÃà¾ÒèÁÃËªÒµÒÍÙÁÒÃÒ"Ò;Ò;Ò;ÑèÇàËË×Í§

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ËÒÃàËÃÒÃ àªè¹;ÒÃ¼ÁÒµ àµÃàÁÒÃÁ à«àÁà¹ÒÃÁÃÒËµ; ÍÒÃÁÙã¹;ÁÍºÙÁÒ¹ã¹ªèéá´§ (IgY)

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;ÒÃá¾·Áì :

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à»ÃµÒ¹.Ò§;ÒÃá¾·Áì àªè¹ à»ÃµÒ¹ªèéàÁ×Í'Í; , Erythropoietin

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ãÁã¹ãµÁ¹ÁÁÍ¹µÒÍ'Òé àªè¹ Anti-cortisal Mab., Anti-adipocyte membrane protein (IgY)

ÇÑ«Õ¹ àªè¹ ÇÑ«Õ¹»éí§;Ñ¹âÃªæøéËÇÑ´ãË-è (Influenza)

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