

Animal Cell Culture and Microbial Bioprocess Development

αϞÒÁà»Ϟ¹ÁÒ

ÈéÍ§»Ô°ÑμÔ;ÒÃ Animal Cell Culture ÁÕ·Ø´àÃÔèÁμé¹·Ò; ;ÒÃÈÒ;ÉÒà¼ÒÐàÃÔéÁ§à«ÁÁìáÁÁ§ áÁÐ á°μϞÔϞáÄÇÃÑÈ à¼×é
à»ÃμÕ¹·Ñ´á»Á§·Ò; ;ÃÐ°Ϟ¹;ÒÃ¼Ñ¹ ØϞÔÈϞ;ÃÃÁá¼×éíãéã¹·Ò§;ÒÃá¼·Áì »Ñ···Ø°Ñ¹á´éϞ·ÁÒ·Á¹°ϞèÒÁ§Ò¹á»¶Ò§ ;ÒÃá¼ÒÐàÃÔ
submerge culture ÍÑ¹·Ð¹Òà»ÈÙè¼ÁÔμÁÑ³±; áÁÐ ;ÒÃϞ·ÁÒ·Á¹·Ò´;ÒÃ¼ÁÔμà¼×éííØμÈÒ;ÃÃÁ·Ñé§μé¹¹éÓáÁÐ»ÁÒÁ¹éÓ §Ò¹Ϟ
à¼×éíá´é¼ÁÔμÁÑ³±·Òè¹Òà»ãééá´é··ÁÔ§·Ñé§·Ò§;ÒÃà;ÉμÁ áÁÐ »ÈØÈÑμϞ; ÁϞÁá»¶Ò§·Ò§;ÒÈÈÒÁ áÁÐ ;ÒÃá¼·Áì á¹í¹Òμ Á

ϞÑμ¶Ϟ»ÃÐÈ§μì

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¼Ñ²¹Ò;ÒÃá¼ÒÐàÃÔéÁ§à«ÁÁì áÁÐ·ØÁÔ¹·ÃÔÁìíÁèÒ§ÁÔ»ÃÐÈÔ·ÒÁÒ¼ á²è¹

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;ÒÃÈÒÈÙμÁÍÒÈÒÁ·ÒèàÈÁÒÐÈÁ

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

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;ÒÃÈÒ;ÉÒ;ÒÃà;ÒÐμÑϞÍ§à«ÁÁì°¹áÁáμÁáμÁÔáÍÁì

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¼Ñ²¹Ò;ÃÐ°Ϟ¹;ÒÃÈ;Ñ´ áÁÐ·Ó°ÃÔÈØ·Ôì¼Á¼ÁÔμ·Ò; «ÁÁì áÁÐ·ØÁÔ¹·ÃÔÁì

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¼Ñ²¹Ò;ÒÃϞ·ÁÒ·Á¹·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´Ó¹ÒÈÒÃçí§ÈÑµÇì·Ó áÈéÁ´íÑµÁÒ;ì

Lactococcus acidophilus & Saccharomyces cerevisiae

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ÍÒËÒÃËÑµÇì áÁÐ ÊÒÃàÊÃÒÃã¹ÊÑµÇì ÍÒËÒÃËÑµÇì àªè¹ÇéÒÇà¾'ÉÁÑ; ÊÓËÃÑºÇÑÇ¹Á ÊèÇ¹ÊÒÃàÊÃÒÃµ×í ÊÒÃÍÒËÒÃ.Ç
«Òè§ÍÁÙèã¹ÁÙ».ÒèÊÑµÇìÊÒÃÒÃ¶¹Òã»ãªéã'élÁèÒ§ÁÇ'áÁÇÇ áÁÐ ¢èÇÁ;ÁÐµØé¹ ÁÙÁÒµØéÁ;Ñ¹ã¹ÊÑµÇì

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ÇÑµ«Ò¹ÊÑµÇì àªè¹ ÇÑµ«Ò¹»él;Ñ¹ã¹Áµ á°ÁµàÁµã¹ ÇÑÇ

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ªØ'µÃÇ" àªè¹ªØ'µÃÇ"µÇÒÁàµÃÒÃ'ã¹ÊÑµÇì;él¹;ÒÃãËéÇÑµ«Ò¹ à¾×èlá¾ÒèÁ»ÁÐÊÒ.ÒÁÒ¾;ÒÃãËéÇÑµ«Ò¹

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ÍÒËÒÃ :

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ÊÒÃ»ÁØ§áµè§ÁË àªè¹;ÒÃ¼ÁÒµÊÒÃà¾ÒèÁÁËªÒµÒÍÙÁÒÁÒ"Ò;Ò;Ò;ÑèÇàÊÃ×Í§

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ÊÒÃàÊÃÒÃ àªè¹;ÒÃ¼ÁÒµ áµÃàÁÒÃÁ à«àÁ¹ÒÃÁÁÒËµ; ÍÒÁÁÙá¹;ÁÍºÙÁÒ¹ã¹ªèéá'§ (IgY)

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;ÒÃá¾·Áì :

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á»ÁµÒ¹.Ò§;ÒÃá¾·Áì àªè¹ á»ÁµÒ¹ªèéàÁ×Í'Í; , Erythropoietin

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áÁá¹áµÁ¹ÁÁÍ¹µÒÍ'Òé àªè¹ Anti-cortisal Mab., Anti-adipocyte membrane protein (IgY)

ÇÑ«Ö¹ àªè¹ ÇÑ«Ö¹»éí§;Ñ¹âÃªæøéËÇÑ´ãË-è (Influenza)

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