```vb
Option Explicit

Private Const MODULE_NAME = "frmLookupImm"

Public m_sRecId As String
Public m_sName As String

Dim m_bCancelled As Boolean
Dim m_bInitializing As Boolean

Private Enum cnColumns
   cnIEN
   cnName
   cnDescription
End Enum

Private Const HEIGHT_COLLAPSED = 1950
Private Const HEIGHT_EXTENDED = 5880

Public Function RunQuery(ByVal LookupValue As String, Optional NoAutoReturn As Boolean) As Boolean
   Dim v() As String, sRpc As String, sParam As String, sScreen As String

   On Error GoTo errHandle

   txtName.Text = LookupValue
   LookupValue = UCase(LookupValue)
   m_sRecId = ""
   m_sName = ""
   m_bCancelled = True
   fgResults.Rows = 1
   m_bInitializing = True

   If GetParam("Imm-LookupOpt") = "1" Then
     opt(1).value = True ' Active Lots Only
     sScreen = "I $D(~AUTTIML(""C"",Y)),$P($G(~AUTTIMM(Y,0)),U,7)'=1"
   Else
     opt(0).value = True ' All Lots
     sScreen = ".07'=1"
   End If

   m_bInitializing = False
   sParam = "9999999.14^" & Xlate(LookupValue, U) & "^^^^^" & sScreen & "^^.01;1.14"
   sRpc = CallRPCList("BGOUTL DICLKUP", sParam)
   If ErrorCheck(sRpc) Then Exit Function

   v = Split(sRpc, vbCrLf)
   cmdSelect.Enabled = True
   LoadGrid v
   cmdSelect.Enabled = fgResults.Rows > 1

   If fgResults.Rows = 2 And Not Visible And Not NoAutoReturn Then
     m_sName = fgResults.TextMatrix(1, cnName)
     m_sRecId = fgResults.TextMatrix(1, cnIEN)
     m_bCancelled = False
     RunQuery = True
     Exit Function
   End If

   If fgResults.Rows = 2 Then
     fgResults.Row = 1
     cmdSelect.Default = True
   End If

   If Not Visible Then
     If fgResults.Rows > 1 Then Height = HEIGHT_EXTENDED
     Show vbModal
     Unload Me
   End If

   RunQuery = Not m_bCancelled
   Exit Function

errHandle:
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    m_bInitializing = False
    ErrorTrap MODULE_NAME, "RunQuery"
End Function

Private Sub cmdCancel_Click()
    m_bCancelled = True
    Hide
End Sub

Private Sub cmdSelect_Click()
    Dim i As Integer

    On Error GoTo errHandle

    With fgResults
      If .Row = 0 Then Exit Sub
      m_sRecId = .TextMatrix(.Row, cnIEN)
      m_sName = .TextMatrix(.Row, cnName)
    End With

    m_bCancelled = False
    Hide
    Exit Sub

errHandle:
    ErrorTrap MODULE_NAME, "cmdSelect_Click"
End Sub

Private Sub cmdSearch_Click()
    On Error GoTo errHandle

    ' If no criteria, exit
    If txtName.Text = "" Then
      ShowError TX_NO_SEARCH_TEXT, TC_NO_SEARCH
      Exit Sub
    End If

    RunQuery txtName.Text

    If fgResults.Rows = 1 Then
      ShowInfo TX_NO_MATCHES, "Find Record"
    Else
      Height = HEIGHT_EXTENDED
    End If

    Exit Sub

errHandle:
    ErrorTrap MODULE_NAME, "cmdSearch_Click"
End Sub

Private Sub fgResults_Click()
    cmdSelect.Default = True
End Sub

Private Sub fgResults_DblClick()
    cmdSelect_Click
End Sub

Private Sub fgResults_GotFocus()
    cmdSearch.Default = False
End Sub

Private Sub Form_Activate()
    On Error Resume Next

    txtName.SetFocus
    DoEvents
    Refresh

    If fgResults.Rows = 2 Then
      fgResults.SetFocus
      cmdSelect.Default = True
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  Else
    txtName.SetFocus
  End If
End Sub

Private Sub Form_Load()
  Height = HEIGHT_COLLAPSED
End Sub

Private Sub LoadGrid(ByRef v() As String)
  Dim i As Integer

  On Error GoTo errHandle

  With fgResults
    .Clear
    .Rows = 1
    .Cols = 3
    .FixedCols = 0
    .ColHidden(0) = True
    .ColWidth(1) = 2000
    .AutoSearch = flexSearchFromCursor
    .TextMatrix(0, cnName) = "Immunization"
    .TextMatrix(0, cnDescription) = "Description"
    .AllowUserResizing = flexResizeColumns
    .AutoSizeMode = flexAutoSizeRowHeight
    .SelectionMode = flexSelectionByRow
    .ExplorerBar = flexExSortShow
    .AllowSelection = False
    .ExtendLastCol = True

    For i = 0 To UBound(v)
      If .FindRow(Piece(v(i), U), , 0) < 1 Then
        If Piece(v(i), U, 2) <> "" Then
          .Rows = .Rows + 1
          .TextMatrix(.Rows - 1, cnIEN) = Piece(v(i), U)
          .TextMatrix(.Rows - 1, cnName) = Piece(v(i), U, 3)
          .TextMatrix(.Rows - 1, cnDescription) = Piece(v(i), U, 4)
        End If
      End If
    Next i

    .AutoSizeMode = flexAutoSizeColWidth
    .AutoSize 1, .Cols - 1
    .Col = 1
    .Sort = flexSortGenericAscending
    .Row = 0
  End With
  Exit Sub

errHandle:
  ErrorTrap MODULE_NAME, "LoadGrid"
End Sub

Private Sub opt_Click(Index As Integer)
  If m_bInitializing Then Exit Sub
  SetParam "Imm-LookupOpt", Index
  RunQuery txtName.Text
End Sub

Private Sub txtName_KeyDown(KeyCode As Integer, Shift As Integer)
  On Error Resume Next ' usually just at the beginning or end of the flexgrid

  Select Case KeyCode
    Case vbKeyUp  ' uparrow
      If fgResults.RowSel <> 0 Then
        txtName = ""
        fgResults.Select fgResults.RowSel - 1, 0
        cmdSelect.Default = True
      End If

    Case vbKeyDown  ' downarrow
      If fgResults.RowSel <> fgResults.Rows Then
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            txtName = ""
            fgResults.Select fgResults.RowSel + 1, 0
            cmdSelect.Default = True
          End If

      Case vbKeyPageDown   ' pagedown
          txtName = ""

          If fgResults.RowSel >= fgResults.Rows - 9 Then
            fgResults.Select fgResults.Rows, 0
          Else
            fgResults.Select fgResults.RowSel + 9, 0
          End If

          cmdSelect.Default = True

      Case vbKeyPageUp   ' pageup
          txtName = ""

          If fgResults.RowSel <= 9 Then
            fgResults.Select 1, 0
          Else
            fgResults.Select fgResults.RowSel - 9, 0
          End If

          cmdSelect.Default = True

      Case Else
          Exit Sub
    End Select

    fgResults.TopRow = fgResults.RowSel
    txtName.SetFocus
End Sub

Private Sub txtName_KeyUp(KeyCode As Integer, Shift As Integer)
    Dim i As Integer

    On Error Resume Next
    If txtName = "" Then Exit Sub

    If KeyCode <> vbKeySpace Then
      i = fgResults.FindRow(txtName, , 1, False, False)

      If i > -1 And Height = HEIGHT_EXTENDED Then
        fgResults.Select i, 0
        cmdSelect.Default = True
      Else
        cmdSearch.Default = True
      End If

    End If

    fgResults.TopRow = fgResults.RowSel
    txtName.SetFocus
End Sub
```

```
VERSION 5.00
Object = "{1C0489F8-9EFD-423D-887A-315387F18C8F}#1.0#0"; "vsflex8l.ocx"
Object = "{FB521490-8F38-4417-8971-727969D15AD3}#3.0#0"; "IhsBgoContainer.ocx"
Begin VB.Form frmLookupImm
   BorderStyle     =   1  'Fixed Single
   Caption         =   "Vaccine Selection"
   ClientHeight    =   1575
   ClientLeft      =   45
   ClientTop       =   330
   ClientWidth     =   7800
   LinkTopic       =   "Form1"
   MaxButton       =   0   'False
   MinButton       =   0   'False
   ScaleHeight     =   1575
   ScaleWidth      =   7800
   StartUpPosition =   1   'CenterOwner
   Begin IhsBgoContainer.bgoContainer fraSearchCriteria
      Height          =   735
      Left            =   60
      Top             =   60
      Width           =   6270
      _ExtentX        =   11060
      _ExtentY        =   1296
      BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
         Name            =   "MS Sans Serif"
         Size            =   8.25
         Charset         =   0
         Weight          =   400
         Underline       =   0   'False
         Italic          =   0   'False
         Strikethrough   =   0   'False
      EndProperty
      Caption         =   "Search Criteria"
      FontSize        =   8.25
      FontName        =   "MS Sans Serif"
      Begin VB.TextBox txtName
         Height          =   315
         Left            =   1920
         TabIndex        =   8
         Top             =   255
         Width           =   3405
      End
      Begin VB.PictureBox Picture1
         Appearance      =   0  'Flat
         BorderStyle     =   0  'None
         ForeColor       =   &H80000008&
         Height          =   495
         Left            =   240
         Picture         =   (Icon)
         ScaleHeight     =   495
         ScaleWidth      =   555
         TabIndex        =   7
         TabStop         =   0   'False
         Top             =   165
         Width           =   555
      End
      Begin VB.CommandButton cmdSearch
         Caption         =   "&Search"
         Height          =   360
         Left            =   5340
         TabIndex        =   6
         Top             =   240
         Width           =   780
      End
      Begin VB.Label lblFirstName
         Alignment       =   1  'Right Justify
         Caption         =   "Search &Value"
         Height          =   255
         Left            =   825
         TabIndex        =   9
         Top             =   300
         Width           =   1035
      End
```

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      End
      Begin VSFlex8LCtl.VSFlexGrid fgResults
         Height          =    3615
         Left            =    0
         TabIndex        =    3
         Top             =    1890
         Width           =    7800
         _cx             =    13758
         _cy             =    6376
         Appearance      =    1
         BorderStyle     =    1
         Enabled         =    -1   'True
         BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
            Name             =    "MS Sans Serif"
            Size             =    8.25
            Charset          =    0
            Weight           =    400
            Underline        =    0    'False
            Italic           =    0    'False
            Strikethrough    =    0    'False
         EndProperty
         MousePointer    =    0
         BackColor       =    -2147483643
         ForeColor       =    -2147483640
         BackColorFixed  =    -2147483633
         ForeColorFixed  =    -2147483630
         BackColorSel    =    -2147483635
         ForeColorSel    =    -2147483634
         BackColorBkg    =    -2147483636
         BackColorAlternate=   -2147483643
         GridColor       =    -2147483633
         GridColorFixed  =    -2147483632
         TreeColor       =    -2147483632
         FloodColor      =    192
         SheetBorder     =    -2147483642
         FocusRect       =    1
         HighLight       =    1
         AllowSelection  =    -1   'True
         AllowBigSelection=   -1   'True
         AllowUserResizing=    0
         SelectionMode   =    0
         GridLines       =    1
         GridLinesFixed  =    2
         GridLineWidth   =    1
         Rows            =    50
         Cols            =    10
         FixedRows       =    1
         FixedCols       =    1
         RowHeightMin    =    0
         RowHeightMax    =    0
         ColWidthMin     =    0
         ColWidthMax     =    0
         ExtendLastCol   =    0    'False
         FormatString    =    ""
         ScrollTrack     =    0    'False
         ScrollBars      =    3
         ScrollTips      =    0    'False
         MergeCells      =    0
         MergeCompare    =    0
         AutoResize      =    -1   'True
         AutoSizeMode    =    0
         AutoSearch      =    0
         AutoSearchDelay =    2
         MultiTotals     =    -1   'True
         SubtotalPosition=    1
         OutlineBar      =    0
         OutlineCol      =    0
         Ellipsis        =    0
         ExplorerBar     =    0
         PicturesOver    =    0    'False
         FillStyle       =    0
         RightToLeft     =    0    'False
         PictureType     =    0
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      TabBehavior     =    0
      OwnerDraw       =    0
      Editable        =    0
      ShowComboButton =    1
      WordWrap        =    0     'False
      TextStyle       =    0
      TextStyleFixed  =    0
      OleDragMode     =    0
      OleDropMode     =    0
      ComboSearch     =    3
      AutoSizeMouse   =    -1   'True
      FrozenRows      =    0
      FrozenCols      =    0
      AllowUserFreezing=   0
      BackColorFrozen =    0
      ForeColorFrozen =    0
      WallPaperAlignment=   9
      AccessibleName  =    ""
      AccessibleDescription=    ""
      AccessibleValue =    ""
      AccessibleRole  =    24
   End
   Begin VB.OptionButton opt
      Caption         =    "Show &All Active Vaccines"
      Height          =    285
      Index           =    0
      Left            =    1320
      TabIndex        =    0
      Top             =    930
      Value           =    -1   'True
      Width           =    2445
   End
   Begin VB.OptionButton opt
      Caption         =    "Show Only active Vaccines with a &Lot Number"
      Height          =    285
      Index           =    1
      Left            =    1320
      TabIndex        =    1
      Top             =    1200
      Width           =    3705
   End
   Begin VB.CommandButton cmdCancel
      Cancel          =    -1   'True
      Caption         =    "&Cancel"
      Height          =    390
      Left            =    6600
      TabIndex        =    5
      Top             =    540
      Width           =    1005
   End
   Begin VB.CommandButton cmdSelect
      Caption         =    "&OK"
      Enabled         =    0    'False
      Height          =    390
      Left            =    6600
      TabIndex        =    4
      Top             =    45
      Width           =    1005
   End
   Begin VB.Label Label1
      Caption         =    "Select one of the following &Records"
      Height          =    225
      Left            =    120
      TabIndex        =    2
      Top             =    1620
      Width           =    2835
   End
End
```