CLINICAL RESEARCH UNIT & INSTITUTE OF BIOMEDICINE CENTER FOR GLOBAL HEALTH

# Control of samples Laboratory of infectious diseases

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### Introduction

Software for inventory management of samples of biotechnology and clinical analyses laboratory. It automates all work in the laboratory, since the act of sample's receiving until storage aliquots.

The samples are received from field then are created labels for each aliquots. Using datas from Auxiliary tables, each samples receives a sequential number with all informations attached like project, type, characteristics, participant identification number, period of study, name of freezer, number of box, position in the box, if label printed, if sample was discarded and a log with informations about user, date of creation, storage, transfers and discard.

The participant may have as many samples need.

In the system you may create, update and transfer boxes of samples without manual typing, using the scanners and reducing the possibility of errors.

It has report with map of the boxes, list of samples and screens with treeviews to consult samples for project, for patient, for boxes, for freezers, etc. It uses the technology of identification with bar code for security in enter and manipulation samples with labels resistants 70 negative celsius degrees.

Developed with Microsoft Access.





## Screen login to register user name.

## **Principal screen**



|  | Menu for filter and<br>vert back to principal form                                      |                             |              |
|--|---|-----------------------------|--------------|
| Samples Control v1                       | Se [Projects]   |                             |              |
| <u>Filter</u> Back                       |   | Digite uma pergunta 🛛 🚽 🗗 🗙 |              |
| inical Research U<br>aboratory of Infect | ព្ភit & Institute of Biomedicine<br>ious Diseases - LDI                                 | Projects                    |              |
| Project<br>Identification:<br>NickName:  | 0001       Click here for search a record ou ctrl+L in any field         PU       Field | Form name                   |              |
| Date Begin:<br>Date End:                 | 01/jan/1998<br>31/dez/2050  | s                           | Screen defau |
|  | rent record Total of records  |                             |              |

| Localizar           |                                | What you want to search          |                   |          |
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| L <u>o</u> calizar: | RE001                          |                                  | Localizar próxima | Search s |
| E <u>x</u> aminar:  | ID 🔹                           | → Which field you want to search | Cancelar          |          |
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|                     | Diferenciar maiúsc. de minúsc. | Pesquisar campos como formatados |                   |          |

creen

# **Control of samples**

# Auxiliar forms

| Samples Control v1.5a - [Projects]   |                           |  |
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| 📴 Eilter Back  | Digite uma pergunta 🗾 🗧 🗙 |  |
| Clinical Research Unit & Institute of Biomedicine<br>Laboratory of Infectious Diseases - LDI | Projects                  |  |
| Project  |                           |  |
| Identification: 0001   |                           |  |
| NickName: PU   |                           |  |
| Description: Projeto Parque Universitário. DMID NIH  |                           |  |
|  |                           |  |
|  |                           | Information about  |
|  |                           | information about  |
|  |                           | projects. You may  |
|  |                           | create as many   |
| Date Begin: 01/jan/1998  |                           | projects need.   |
| Date End: 31/dez/2050  |                           | 1  |
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| Modo formulário  | NUM                       |  |
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| Samples Control v1.5a - [Types]  |                           |  |
| Eilter Back  | Digite uma pergunta 🔷 🗧 🗙 |  |
| linical Research Unit & Institute of Biomedicine<br>aboratory of Infectious Diseases - LDI   | <u>Types of Samples</u>   |  |
|  |                           |  |
| Type of Samples  | _                         |  |
| ID:0002  | <b>A</b>                  | Information about  |
| Project: RE 2a   |                           | type and   |
| Origin Sample: Amostra   |                           | characteristics  |
| Type: Fezes Characteristics: Col   |                           |  |
| Description: Aliquota de fezes colonia   |                           | samples. This  |
| Need Result ?  |                           | information is   |
|  |                           | associated with the  |
|  |                           |  |
|  |                           | project You may  |
|  |                           | project. You may   |
|  |                           | project. You may<br>create as many need.   |
|  |                           | project. You may<br>create as many need.<br>The type and   |
|  | <i></i>                   | project. You may<br>create as many need.<br>The type and<br>characteristics may                                |
|  |                           | create as many need.<br>The type and<br>characteristics may<br>be printed on the                               |
|  |                           | create as many need.<br>The type and<br>characteristics may<br>be printed on the                               |
|  |                           | project. You may<br>create as many need.<br>The type and<br>characteristics may<br>be printed on the<br>label. |
|  |                           | project. You may<br>create as many need.<br>The type and<br>characteristics may<br>be printed on the<br>label. |
|  |                           | project. You may<br>create as many need.<br>The type and<br>characteristics may<br>be printed on the<br>label. |
| Registro: [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]  |                           | project. You may<br>create as many need.<br>The type and<br>characteristics may<br>be printed on the<br>label. |

# **Control of samples**

# Auxiliar forms

| Samples Control v1.5a - [Freezers]  |                           |  |
|---|---------------------------|--|
| Eilter Back   | Digite uma pergunta 🛛 🗕 🗶 |  |
| Clinical Research Unit & Institute of Biomedicine<br>Laboratory of Infectious Diseases - LDI                                    | <u>Freezers</u>           |  |
| Freezer<br>ID: D: A<br>Name of Freezer: Jericoacoara<br>Localization: UPC<br>Temperature Type: oC<br>Temperature Measure: 80,00 |                           | Information about<br>freezers. You may<br>create as many<br>freezers need. |
| Registro: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |                           |  |



## Samples form

| Eiter Back      Digite uma pergunta      Orgite uma pergunta      Storage      Identification      Storage      Identification      Storage      Project:     PU     PID:     PU57971     Period:     I Més      Characteristic:     Description      User      Is/07/2008; Storage on the laboratory      VERONICA      VERON | Samples (                          | Control v1.5a - [Samp                      | es]                               |   |
|--|------------------------------------|--|-----------------------------------|---|
| Clinical Research Unit & Institute of Biomedicine<br>Laboratory of Infectious Diseases - LDI       Storage         Identification       Image: Imag   | 🔢 <u>F</u> ilter                   | <u>B</u> ack                               |                                   | Digite uma pergunta 🗾 🚽 🛃 🗙                                     |
| Identification       Storage         Type:       DNA         Project:       PU         PID:       PUS79/1         Period:       IMés         Image: Image   | Clinical Re<br>Laboratory          | search Unit & Insti<br>of Infectious Disea | tute of Biomedicine<br>ases - LDI | Samples and Aliquots  |
| Project:       PU       PID:       PU579/1       Period:       1Mês       I Label Printed       Sample Discard         Date       Description       User         ▶       18/07/2008 Storage on the laboratory       VERONICA         ≥       21/07/2008 Transfer from freezer Jericoacoara       VERONICA  | -Identificatio<br>Sample:<br>Type: | 007951<br>DNA                              | Characteristic:                   | Storage<br>Freezer: UVa-VIRGINIA<br>Box No: 65<br>Position: 801 |
| Date     Description     User       ▶ 18/07/2008 Storage on the laboratory     VERONICA       21/07/2008 Transfer from freezer Jericoacoara     VERONICA   | Project:                           | PU   | PID: PU579/1 Period: 1 Mês        | Z Label Printed 🔲 Sample Discard                                |
| 18/07/2008       Storage on the laboratory       VERONICA         21/07/2008       Transfer from freezer Jericoacoara       VERONICA   | Da                                 | ate  | Description                       | User  |
| 21/07/2008 Transfer from freezer Jericoacoara VERONICA   | ▶ 18/                              | 07/2008 Storage on                         | the laboratory                    | VERONICA  |
|  | 21/                                | 07/2008 Transfer fro                       | m freezer Jericoacoara            | VERONICA  |
|  |                                    |  |                                   |   |
| Registro: 14 1 2961 >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>   | Registro: 14                       | 7051                                       | <b>▶</b> → # de 9515              |   |
| Sample Code  | Contraction (14                    |  |                                   |   |

Here you may to see all informations about samples. Sample number, Type, characteristics, project, PID (participant number), period of study.

If sample is stored, you can see the name of the freezer, box number and position in the box. You may to see if label was printed and if sample was discarded. You also have log with all "life's sample".



## Create and print samples form



## **Tracking samples form**

| Samelas Car                 | And of Eq. (Concelled   | an altin al |       |       |                |  |           |
|-----------------------------|-------------------------|-------------|-------|-------|----------------|--|-----------|
| Samples Cor                 | ntroi v1.5a - [Sample t | rackingj    |       |       |                | D  |           |
| <u>∃ F</u> ilter <u>B</u> a | ck                      |             |       |       |                | Digite uma pergunta  |           |
| inical Research             | arch Unit & Institut    | e of Biomed | icine |       |                | Samples Ti   | racking   |
| iboratory of                | micetious biscust       | 55 - EDI    |       |       |                |  | cib.      |
| Description:                | Discard Samples         |             |       | -     |                |  |           |
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|                             |                         |             |       |       | 38.30          | t,   | 204622,50 |
| lodo formulá                | irio                    |             |       |       |                |  | JUM       |

Create box form



On this form you may send to field, receive from field or discard samples. You may use a scanner to read the number of sample.



On this screen you create boxes for storage samples. You may use a scanner to read the number of sample.

# Update and transfer box form

|            |            |        | incezei. | Jericoacoa | ra     | •      |        |        |        | <b>`</b>   |                                |
|------------|------------|--------|----------|------------|--------|--------|--------|--------|--------|------------|--------------------------------|
| ositions i | in the box | G      |          |            |        |        |        |        |        |            | 1                              |
|            | A          | в      | C        | D          | E      | F      | G      | н      | I      | J          |                                |
| 1          | 009101     | 009100 | 009099   | 009096     | 009097 | 009095 | 009094 | 009087 | 009080 |            |                                |
| 2          | 009083     | 009082 | 009078   | 009079     | 009076 | 009077 | 009069 | 009119 | 009121 | 009118     | 1000                           |
| 3          | 009115     | 009116 | 009113   | 009114     | 009104 | 009207 | 009208 | 009209 | 009205 | 009206     |                                |
| 4          | 009203     | 009204 | 009196   | 009193     | 009189 | 009190 | 009188 | 009187 | 009185 | 009186     | Show messages<br>about samples |
| 5          | 009178     | 009251 | 009253   | 009254     | 009249 | 009248 | 009247 | 009246 | 009238 | 009324     |                                |
| 6          | 009322     | 009325 | 009319   | 009320     | 009318 | 009317 | 009309 | 009306 | 009305 | 009304     |                                |
| 7          | 009301     | 009302 | 009299   | 009300     | 009290 | 009284 | 009288 | 009286 | 009282 | 009283     |                                |
| 8          | 009281     | 009280 | 009273   |            |        |        |        |        |        |            |                                |
| 9          |            |        |          |            |        |        |        |        |        |            |                                |
| 10         |            |        |          |            |        |        |        |        |        |            |                                |
|            |            |        |          |            |        |        |        |        | -      | the sector | El                             |

On this screen you can update box. You can put or take samples. You may use a scanner to read number of sample.

| mples            | Control v1.5                 | a - [Transfe             | er box]                 |             |        |        |        |        |          |           |             |        |
|------------------|------------------------------|--------------------------|-------------------------|-------------|--------|--------|--------|--------|----------|-----------|-------------|--------|
| Eilter           | <u>B</u> ack                 |                          |                         |             |        |        |        |        |          | Digite u  | ma pergunta |        |
| cal Re<br>orator | esearch Un<br>y of Infection | it & Instit<br>ous Disea | ute of Bio<br>ses - LDI | medicine    |        |        |        |        | Transfe  | er Box Be | etween Fre  | eezers |
| ormat            | ion:<br>01028                | - Fre                    | ezer: Jer               | ricoacoara  | •      |        |        |        | Options: | <u>/</u>  |             |        |
| sitions          | in the box:                  |                          |                         |             |        |        |        |        |          |           | 1           |        |
|                  | Α                            | В                        | C                       | D           | E      | F      | G      | H      | I        | J         |             |        |
| 1                | 009101                       | 009100                   | 009099                  | 009096      | 009097 | 009095 | 009094 | 009087 | 009080   |           |             |        |
| 2                | 009083                       | 009082                   | 009078                  | 009079      | 009076 | 009077 | 009069 | 009119 | 009121   | 009118    |             |        |
| 3                | 009115                       | 009116                   | 009113                  | 009114      | 009104 | 009207 | 009208 | 009209 | 009205   | 009206    |             |        |
| 4                | 009203                       | 009204                   | 009196                  | 009193      | 009189 | 009190 | 009188 | 009187 | 009185   | 009186    |             |        |
| 5                | 009178                       | 009251                   | 009253                  | 009254      | 009249 | 009248 | 009247 | 009246 | 009238   | 009324    |             |        |
| 6                | 009322                       | 009325                   | 009319                  | 009320      | 009318 | 009317 | 009309 | 009306 | 009305   | 009304    |             |        |
| 7                | 009301                       | 009302                   | 009299                  | 009300      | 009290 | 009284 | 009288 | 009286 | 009282   | 009283    |             |        |
| 8                | 009281                       | 009280                   | 009273                  |             |        |        |        |        |          |           |             |        |
| 9                |                              |                          |                         |             |        |        |        |        |          |           |             |        |
| 10               |                              |                          |                         |             |        |        |        |        |          |           |             |        |
|                  |                              |                          |                         |             |        |        |        |        |          |           | -           |        |
| r<br>S CONG      | G / FEZES BUF                | FER / FEZES              | SWAB / FEZ              | ES Mac CALE | 00 /   |        |        | B(C    | 1        |           |             |        |
|                  |                              |                          |                         |             |        |        |        |        |          |           | the second  | 204622 |
|                  | zer Name                     |                          |                         |             |        |        |        |        |          |           | NI          | LIN A  |

On this screen you can download a box and all their samples to another freezer.

### View samples form



On this screen can see all the samples created in the system. Informations like project, box, position, type, characteristics and discarded.

#### **Report samples form**



# **Users** form

| Filter Back  |  |   |   |   |  |
|--|--|---|---|---|--|
|  | 1.11.14.0.1  | 11 A C D1   |   |   |  |
| Ical Resear  | ch Unit & Ir<br>factions Di  | istitute of Bio   | medicine  |   | <u>Users</u>   |
| oratory of fi  | liectious Di   | seases - LDI  |   |   |  |
| leare  |  |   |   |   |  |
| O sets   |  |   |   |   |  |
| Login:   | ARMINHA  |   |   |   |  |
|  |  |   |   |   |  |
| Name: C  | arminha Pinho  |   |   |   |  |
|  | -  |   |   |   | Here you allow access  |
| Password: 1  | 23   |   |   |   | for users. You have two  |
| Level: A   | resso Total  |   |   |   |  |
|  |  | •   |   |   | levels. Only see and   |
|  |  |   |   |   | print or full access.  |
| Level 1 Acces  | for views and  | nrinter   |   |   |  |
| LEVELT ACCES   | s for views drit   | a printer.  |   |   |  |
| Level 2 Acess  | full.  |   |   |   |  |
|  |  |   |   |   |  |
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| Samples Control v1.5a -  | Audit]   | _   | _   |   |  |
| Samples Control v1.5a -<br><u>F</u> ilter <u>B</u> ack<br>Database:  | Audit)<br>Table:   | Field:  | Object:   | DateTime: Audit_Trail:  | Digite uma pergunta  |
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| Samples Control v1.5a -<br>piter Back<br>Database:<br>ControledAmostras m<br>ControledAmostras m   | Audit) Table: Ta   | Field:           Description           DateBegin           DateEding           DateEnd           SENHA           NickName           NickName           NickName           NickName           DateEnd           DateEnd           Description           Description           Description           Description           Description           Description           USUARIO           SEINHA           NOME           NIVEL           Frepzert_Measure           Project_ID           Project_ID           Description   | Object:<br>Description<br>DateEegin<br>DateEegin<br>SENHA<br>SENHA<br>NickName<br>NickName<br>NickName<br>NickName<br>Description<br>Description<br>Description<br>OriginSample<br>Characteristics<br>Characteristics<br>Characteristics<br>Characteristics<br>Description<br>Characteristics<br>Description<br>SENHA<br>Nome<br>NeedResult<br>Characteristics<br>Description<br>SENHA<br>NOME<br>NIVEL<br>Freezer_Name<br>Temperature_Measure<br>Project_ID<br>CharacteristicsDescription  | DateTime:         Audit_Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:124 User Name: GUEST           23/02/2007 14:61:03 User Name: 2           23/02/2007 14:61:03 User Name: 2           20/03/2007 12:47:51 User Name: 2           14/03/2007 15:03:22 User Name: 2           14/03/2007 15:03:22 User Name: 2           14/03/2007 15:03:22 User Name: 2           15/03/2007 14:35:28 User Name: VERONICA           05/03/2007 14:3  | Digite uma pergunta  |
| Samples Control v1.5a -<br>piter Back<br>Database:<br>ControledeAmostras m<br>ControledeAmostras m<br>ControledAmostras m   | Audit)  Table: T   | Field:           Description           DateBegin           DateEnd           SENHA           NickName           NickName           NickName           NickName           OriginSample           Description           Description           Description           Description           Description           Description           VSLARIO           SENHA           NOME           NVVEL           Freezer Name           Temperature_Measure           Project_ID           Description           Temperature_Measure  | Object:<br>Description<br>DateBegin<br>DateEnd<br>SEINHA<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>Description<br>Description<br>Description<br>Description<br>OriginSample<br>CharacteristicsDescription<br>NeedResult<br>OriginSample<br>NeedResult<br>CharacteristicsDescription<br>USLARIO<br>SEINHA<br>NOME<br>NIVEL<br>Freezer Name<br>Temperature_Measure<br>Project_ID<br>CharacteristicsDescription<br>Temperature_Measure  | DateTime:         Audit_Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 16:40:22 User Name: GUEST           15/02/2007 16:54:02 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           20/02/2007 14:51:12 User Name: 2           20/02/2007 14:51:12 User Name: 2           20/03/2007 12:47:51 User Name: 2           14/03/2007 15:03:22 User Name: CARNINHA           06/06/2007 10:43:28 User Name: VERONICA           16/07/2007 16:03:27 User Name: CARNINHA           06/06/2007 10:43:28 User Name: VERONICA           20/03/2008 16:37  | Digite uma pergunta  |
| Samples Control v1.5a -<br>Piter Back<br>Database:<br>ControledeAmostras m<br>ControledeAmostras m   | Audit) Table: Table: Table: Table: tbProject db tbSampleTypes db tbSampleTyp   | Field:<br>Description<br>DateBegin<br>DateEnd<br>SEINHA<br>NickName<br>NickName<br>NickName<br>NickName<br>Description<br>Description<br>Description<br>Description<br>OriginSample<br>Characteristic<br>Description<br>OriginSample<br>OriginSample<br>NeedResult<br>Description<br>USUARIO<br>SEINHA<br>NOME<br>NIVEL<br>Freezer Name<br>Temperature_Measure<br>Project_ID<br>Description   | Object:<br>Description<br>DateBegin<br>DateBegin<br>DateEnd<br>SEINHA<br>NickName<br>NickName<br>NickName<br>NickName<br>Description<br>Description<br>Description<br>Description<br>OriginSample<br>CharacteristicsDescription<br>VedResult<br>OriginSample<br>NeedResult<br>CharacteristicsDescription<br>USUARIO<br>SEINHA<br>NOME<br>NVGE<br>Freezer Name<br>Temperature_Measure<br>Project_ID<br>CharacteristicsDescription<br>Temperature_Measure   | DateTime:         Audit_Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 16:00:24 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           15/02/2007 17:14:10 User Name: 2           20/02/2007 14:51:12 User Name: 2           20/02/2007 14:51:12 User Name: 2           20/03/2007 12:47:51 User Name: 2           14/03/2007 15:03:22 User Name: CARNINHA           06/06/2007 14:03:25 User Name: CARNINHA           06/06/2007 14:03:25 User Name: CARNINHA           06/06/2007 14:03:25 User Name:   | Digite uma pergunta  |
| Samples Control v1.5a -<br>Piter Back<br>Database:<br>ControledeAmostras m<br>ControledeAmostras m<br>ControledAmostras m<br>ControledAmostras m<br>ControledAmostras m<br>ControledeAmostras m<br>ControledAmostras m<br>Con | Audit) Table: Ta   | Field:<br>Description<br>DateBegin<br>DateEnd<br>SEINHA<br>NickName<br>NickName<br>NickName<br>NickName<br>Description<br>Description<br>Description<br>Description<br>Description<br>Description<br>Description<br>Description<br>Description<br>Description<br>SEINHA<br>NIVEL<br>Freezer, Name<br>Temperature_Measure<br>Project_ID<br>Description<br>Temperature_Measure  | Object:<br>Description<br>DateBegin<br>DateEdin<br>SENHA<br>SENHA<br>NickName<br>NickName<br>NickName<br>Description<br>Description<br>Description<br>Description<br>Description<br>OriginSample<br>CharacteristicsDescription<br>NeedResult<br>CharacteristicsDescription<br>USIJARIO<br>SENHA<br>NOME<br>Freezer, Name<br>Temperature_Measure<br>Project_ID<br>CharacteristicsDescription<br>Temperature_Measure  | DateTime:         Audit_Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 16:00:24 User Name: GUEST           15/02/2007 16:04:02 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           15/02/2007 14:51:16 User Name: 2           23/02/2007 14:51:12 User Name: 2           23/02/2007 14:51:12 User Name: 2           20/03/2007 12:47:51 User Name: 2           20/03/2007 15:93:71 User Name: 2           14/03/2007 15:03:22 User Name: CARNINHA           05/06/2007 14:03:24 User Name: CARNINHA           05/06/2007 14:03:24 User Name: CARNINHA           05/06/2007 14:03:24 User Name: CARNINHA           05/06/2007 14:03:44 User Name: VERONICA           24/02/2007 16:25:  | Digite uma pergunta  |
| Samples Control v1.5a -<br>Piter Back<br>Database:<br>Controled-Amostras m<br>Controled-Amostras m<br>Controled-Contras m<br>Controled-Contras m<br>Controled-Contras m<br>Controled-Contras m<br>Controled-Contras m<br>Controled-Contras m<br>Controled-Contras m<br>Controled-Contras m<br>Controled-Contras m<br>Contr     | Audit)  Table: T   | Field:<br>Description<br>DateBegin<br>DateEnd<br>SEINHA<br>NickName<br>NickName<br>NickName<br>NickName<br>Description<br>Description<br>Description<br>OriginSample<br>Characteristic<br>Description<br>Description<br>NeedResult<br>Description<br>Description<br>Description<br>SENHA<br>NOME<br>Freazer Name<br>Temperature_Measure<br>Project ID<br>Project ID<br>Project ID   | Object:<br>Description<br>DateBegin<br>DateEnd<br>SENHA<br>NickName<br>NickName<br>NickName<br>NickName<br>Description<br>Description<br>Description<br>OriginSample<br>CharacteristicsDescription<br>USUARIO<br>SENHA<br>NOME<br>NVEL<br>Freezer, Name<br>Temperature, Measure<br>Project JD<br>CharacteristicsDescription<br>USUARIO  | DateTime:         Audit_Trail:           15/02/2007 16:00.52/User Name: GUEST           15/02/2007 16:00.52/User Name: GUEST           15/02/2007 16:00.52/User Name: GUEST           15/02/2007 16:40.24/User Name: GUEST           15/02/2007 16:40.24/User Name: GUEST           15/02/2007 16:40.24/User Name: GUEST           15/02/2007 17:11:05/User Name: GUEST           15/02/2007 17:11:24/User Name: GUEST           15/02/2007 17:11:24/User Name: 2           20/02/2007 14:51:03/User Name: 2           20/02/2007 14:51:03/User Name: 2           20/02/2007 12:47:51/User Name: 2           20/03/2007 15:03:22/User Name: 2           14/03/2007 15:03:22/User Name: 2           14/03/2007 15:03:22/User Name: 2           14/03/2007 15:03:22/User Name: 2           14/03/2007 15:03:22/User Name: CARMINHA           05/06/2007 14:03:28/User Name: VERONICA           15/03/2007 14:35:28/User Name: CARMINHA           05/06/2007 14:03:29/User Name: CARMINHA           05/06/2007 14:03:29/User Name: CARMINHA           05/06/2007 14:03:  | Digite uma pergunta  |
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| Samples Control v1.5a -<br>Control v1.5a -<br>Controled-Amostras m<br>Controled-Amostras m<br>Controled-Contras m<br>Controled-Contras m<br>Controled-Contras m<br>Contr       | Audit) Table: Ta   | Field:<br>Description<br>DateBegin<br>DateEegin<br>DateEegin<br>DateEnd<br>SEINHA<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>Ni | Object:<br>Description<br>DateBegin<br>DateBegin<br>DateBegin<br>DateBegin<br>DateBegin<br>DateBegin<br>DateCnd<br>SENHA<br>NickName<br>NickName<br>Description<br>Description<br>Description<br>OriginSample<br>CharacteristicsDescription<br>UsuARIO<br>CharacteristicsDescription<br>USUARIO<br>CharacteristicsDescription<br>USUARIO<br>SENHA<br>NOME<br>NIVEL<br>Freezer Name<br>Temperature_Measure<br>Project_ID<br>CharacteristicsDescription<br>Temperature_Measure  | DateTime:         Audit_Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           15/02/2007 17:14:10 User Name: GUEST           15/02/2007 17:14:10 User Name: 2           23/02/2007 14:51:03 User Name: 2           23/02/2007 14:51:03 User Name: 2           20/03/2007 12:47:51 User Name: 2           20/03/2007 12:48:33 User Name: 2           20/03/2007 12:48:33 User Name: 2           20/03/2007 12:48:33 User Name: 2           14/03/2007 15:03:22 User Name: 2           14/03/2007 15:03:22 User Name: VERONICA           16/03/2007 14:33:28 User Name: VERONICA           16/03/2000 14:33:28 User Name: VERONICA <td< td=""><td>Digite uma pergunta       Image: Image:</td></td<> | Digite uma pergunta       Image: |
| Samples Control v1.5a -<br>piter Back<br>Database:<br>Database:<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>ControledAmostras.m<br>Con   | Audit)  Table: T   | Field: Description DateBegin DateEdin SEINHA SEINHA SEINHA NickName NickName NickName NickName NickName Description Description Description Description Description MeedResult OriginSample NeedResult OriginSample NeedResult Freezer, Name Temperature_Measure Project_ID Description Temperature_Measure Localization Localization   | Object:<br>Description<br>DateBegin<br>DateEnd<br>SENHA<br>NickName<br>NickName<br>NickName<br>NickName<br>NickName<br>Description<br>Description<br>Description<br>Description<br>OriginSample<br>CharacteristicsDescription<br>NeedResult<br>OriginSample<br>NeedResult<br>CharacteristicsDescription<br>USLARIO<br>SENHA<br>NOME<br>NIVEL<br>Freezer Name<br>Temperature Measure<br>Project JD<br>CharacteristicsDescription<br>Temperature_Measure<br>Project JD<br>CharacteristicsDescription<br>Temperature_Measure<br>Project JD   | DateTime:         Audit_Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 16:40:22 User Name: GUEST           15/02/2007 16:54:02 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           20/02/2007 14:51:12 User Name: 2           20/02/2007 14:51:12 User Name: 2           20/03/2007 12:47:51 User Name: 2           20/03/2007 15:03:22 User Name: 2           14/03/2007 15:03:22 User Name: 2           14/03/2007 15:03:22 User Name: 2           14/03/2007 15:03:22 User Name: CARNINHA           06/05/2007 10:03:24 User Name: VERONICA           20/03/2007 14:35:28 User Name: CARNINHA           06/05/2007 10:03:24 User Name: VERONICA           20/03/2008 11:05:241 User Name: VERONICA           20/03/20  | Digite uma pergunta       Image: |
| Samples Control v1.5a -<br>piter Back<br>Database:<br>ControledeAmostras m<br>ControledeAmostras m<br>ControledAmostras m<br>ControledA   | Audit)   | Field:           Description           DateBegin           DateEnd           SEINHA           NickName           NickName           NickName           NickName           NickName           Description           Description           Description           Description           Description           Description           Description           Description           Description           USUARIO           SEINHA           NOME           NIVEL           Freezer Name           Temperature_Measure           Project_ID           Description           Temperature_Measure           Localization           Temperature_Measure   | Object:           Description           DateBegin           DateBend           SEINHA           NickName           NickName           Description           Description           OriginSample           CharacteristicsDescription           VSUARIO           SENHA           NOME           NIVEL           Freezer Name           Temperature_Measure           Project ID           CharacteristicsDescription           Temperature_Measure           Localization           Temperature_Measure  | DateTime:         Audit_Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 16:00:24 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           20/02/2007 14:51:12 User Name: 2           20/02/2007 12:47:51 User Name: 2           20/03/2007 12:47:51 User Name: 2           14/03/2007 15:03:22 User Name: CARNINHA           06/06/2007 14:03:24 User Name: VERONICA           16/03/2007 14:35:20 User Name: CARNINHA           06/06/2007 14:03:25 User Name: CARNINHA           06/06/2007 14:05:27 User Name: CARNINHA           06/06/200  | Digite uma pergunta       Image: |
| Samples Control v1.5a -<br>piter Back<br>Database:<br>ControledeAmostras m<br>ControledeAmostras m<br>ControledAmostras m<br>ControledAmostras m<br>ControledAmostras m<br>ControledAmostras m   | Audit)  Table: T   | Field:           Description         DateBegin           DateEnd         SENHA           NickName         NickName           NickName         NickName           NickName         DateEnd           Description         Description           Description         Description           Description         Description           Description         Description           Description         USUARIO           SENHA         NOME           NVEL         Freezer, Name           Temperature_Measure         Project, ID           Project, ID         Description           Localization         Temperature_Measure  | Object:           Description         DateBegin           DateBegin         DateBegin           DateEnd         SENHA           SENHA         SENHA           NickName         NickName           Description         Description           Description         OriginSample           Characteristic>Description         OriginSample           CharacteristicsDescription         VSUARIO           SENHA         NOME           NVEL         Freezer, Name           Temperature_Measure         Project, ID           CharacteristicsDescription         Temperature_Measure  | DateTime:         Audit, Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 16:04:02 User Name: GUEST           15/02/2007 16:04:02 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           15/02/2007 14:51:16 User Name: 2           23/02/2007 14:51:12 User Name: 2           23/02/2007 14:51:12 User Name: 2           20/03/2007 12:47:51 User Name: 2           20/03/2007 15:93:71 User Name: 2           14/03/2007 15:03:22 User Name: CARNINHA           05/06/2007 14:03:28 User Name: CARNINHA           05/06/2007 14:03:28 User Name: CARNINHA           05/06/2007 14:03:29   | Digite uma perguna   |
| Samples Control v1.5a -<br>Eiter Back<br>Database:<br>Database:<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr<br>ControledAmostras.rr  | Audit)  Table: T   | Field: Description DateBegin DateBegin DateEnd SEINHA NickName NickName NickName NickName Description Description OriginSample Characteristic Description OriginSample NeedResult Description USUARIO SENHA NOME Fineperature_Measure Project_ID Description Temperature_Measure   | Object:           Description           DateBegin           DateEnd           SENHA           SENHA           NickName           NickName           NickName           Description           DoriginSample           Characteristic           CharacteristicsDescription           OriginSample           NedResult           CharacteristicsDescription           USUARIO           SENHA           NOME           NVEL           Freezer, Name           Temperature_Measure           Project_ID           CharacteristicsDescription           ImportanticsDescription           USUARIO           SENHA           NOME           ImportanticsDescription           USUARIO           CharacteristicsDescription           Temperature_Measure           Localization           Temperature_Measure   | DateTime:         Audit_Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 16:40:22 User Name: GUEST           15/02/2007 16:64:02 User Name: GUEST           15/02/2007 16:64:02 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           15/02/2007 17:11:24 User Name: 2           20/02/2007 14:51:12 User Name: 2           20/02/2007 12:47:51 User Name: 2           20/02/2007 12:47:51 User Name: 2           20/03/2007 12:47:51 User Name: 2           14/03/2007 15:03:22 User Name: CARMINHA           05/06/2007 14:35:28 User Name: VERONICA           15/03/2007 14:35:28 User Name: VERONICA           15/03/2007 14:35:28 User Name: VERONICA           15/03/2008 11:05:20 User Name: CARMINHA           20/03/2008 11:05:  | Digite uma pergunta  |
| Samples Control v1.5a -<br>Controled-Amostras in<br>Controled-Amostras i                 | Audit<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:<br>Table:  | Field: Description DateBegin DateEnd SEINHA SEINHA NickName NickName NickName Description Description OriginSample Characteristic Description Description USUARIO SEINHA NOME NIVEL Freazer,Name Temperature_Measure Project_ID Project_ID Description Localization Temperature_Measure   | Object:           Description           DateBegin           DateEedin           SENHA           SENHA           NickName           NickName           NickName           Description           OriginSample           CharacteristicoBescription           OriginSample           NedResult           CharacteristicoBescription           OriginSample           NedResult           CharacteristicoDescription           USUARIO           SENHA           NOME           NVEL           Freezer, Name           Temperature_Measure           Project_ID           CharacteristicsDescription           Localization           Temperature_Measure   | DateTime:         Audit, Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 16:64:02 User Name: GUEST           15/02/2007 16:64:02 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           15/02/2007 17:124 User Name: GUEST           15/02/2007 17:41:10 User Name: 2           23/02/2007 14:51:12 User Name: 2           23/02/2007 14:51:12 User Name: 2           20/03/2007 12:47:51 User Name: 2           20/03/2007 12:48:33 User Name: 2           20/03/2007 15:32:2 User Name: 2           14/03/2007 15:32:2 User Name: 2           14/03/2007 15:32:2 User Name: 2           14/03/2007 15:32:2 User Name: VERONICA           15/03/2007 14:35:28 User Name: VERONICA           15/03/2007 14:35:28 User Name: VERONICA           15/03/2007 14:35:28 User Name: VERONICA           15/03/2008 11:05:34 User Name: CARMINHA           26/03/2008 11:05:3  |  |
| Samples Control v1.5a -<br>Control v1.5a -<br>Cont  | Audit<br>Table:<br>Table:<br>Table:<br>thProject<br>db thProject<br>db thSampleTypes<br>db thSampl   | Field:           Description         DateBegin           DateEegin         DateEegin           DateEend         SENHA           NickName         NickName           NickName         NickName           NickName         DateEegin           Description         Description           Description         Description           Description         Description           USUARIO         SEINHA           NOME         NIVEL           Freezer, Name         Fremperature_Measure           Project_ID         Project_ID           Description         Temperature_Measure           Localization         Temperature_Measure  | Object:           Description           DateBegin           DickName           Description           OriginSample           CharacteristicsDescription           OriginSample           NeedResult           CharacteristicsDescription           USUARIO           OriginSample           NeedResult           CharacteristicsDescription           USUARIO           NVEL           Freezer Name           Temperature_Measure           Project_ID           CharacteristicsDescription           Temperature_Measure           Localization           Temperature_Measure | DateTime:         Audit_Trail:           15/02/2007 16:00:52 User Name: GUEST           15/02/2007 17:11:05 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           15/02/2007 17:11:24 User Name: GUEST           20/02/2007 14:51:03 User Name: 2           20/02/2007 14:51:03 User Name: 2           20/02/2007 14:51:03 User Name: 2           20/03/2007 12:47:51 User Name: 2           20/03/2007 12:48:33 User Name: 2           20/03/2007 12:48:33 User Name: 2           14/03/2007 15:03:22 User Name: 2           14/03/2007 15:03:22 User Name: VERONICA           15/03/2007 14:35:28 User Name: VERONICA           16/03/2007 14:35:28 User Name: VERONICA <td< td=""><td></td></td<>   |  |

Access control system and log with samples, username, table, field, object, date and time.