

Occhiolino - TUL 2014



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WHO?



GNU Solidario

t h y m b r @

GNU?

Free Software Foundation
GNU official package: lims



LIMS?

Laboratory
Information
Management
System

Why?

Tryton

Framework +

Account
Purchase
Production
Stock
Security



Modular, Community-based,
Free/Libre Laboratory
Information Management System



Laboratory Management

- Sample Management
- Lab equipment integration
- Workflows
- Supply Chain Management
- Standards (Production)
- Method management
- Audit Management
- Traceability
- Barcode Handling
- Access groups and security management

Sample Management

- Reception
- Shared Samples
- Fraction
- Sample states
- Services
- Barcodes
- Location tracking
- Planning
- Controls, Blanks and Duplicates

Fractions

Tryton - Administrator - Demo Lab [Euro]

File User Options Favorites Help

Fractions 1 / 3

New Save Switch Reload Previous Next Attachment(0) Action Relate Report E-Mail Print

Number: 2014/2-1 Sample: 2014/2

Entry: 2014/1 Label: Test Label

Party: Customer 1

General Services Comments

Services (1/1)

| Number | Sample | Entry | Party | Analysis/Set/G | Type | Ur | Priority | Report date | Laboratory | Method | Device | Brix | Comments |
|--------|--------|--------|------------|----------------|----------|----|----------|-------------|---------------|---------------------------|--------------------|------|----------|
| 2014/2 | 2014/2 | 2014/1 | Customer 1 | pH (20°C) | Analysis | | 0 | | Chemistry Lab | SQ 001 : By refractometry | Met.12: Density of | | |

Analysis detail (1/1)

| Sample | Entry | Party | Analysis | Type | Re |
|--------|--------|------------|-----------|----------|----|
| 2014/2 | 2014/1 | Customer 1 | pH (20°C) | Analysis | |

tryton://localhost:8000/lims/model/lims.fraction/2;views=%5B241%2C+242%5D

Sample Management

2014/2-1

CS STO

Test Label

Fresh Fruit-Apple



2014/3-1

CS STO

Test Label 2

Fresh Fruit-Apple



2014/4-1

CS STO

Test Label 3

Fresh Fruit-Apple



Lab equipment integration

- Integration with laboratory instruments and applications
- Export worksheets to instruments
- Import instrument results files for quality control assessment
- Import raw results
- Intermediate calculations

Lab results

- Dependent analyses
- Unit conversion
- Limits of detection and quantification
- Check results ranges
- Uncertainty tables
- Review and acceptance of results
- Lab results reports management

Occhiolino : Standards



ISO/IEC 17025



OECD Good Laboratory Practice (GLP)

Modular design

Health

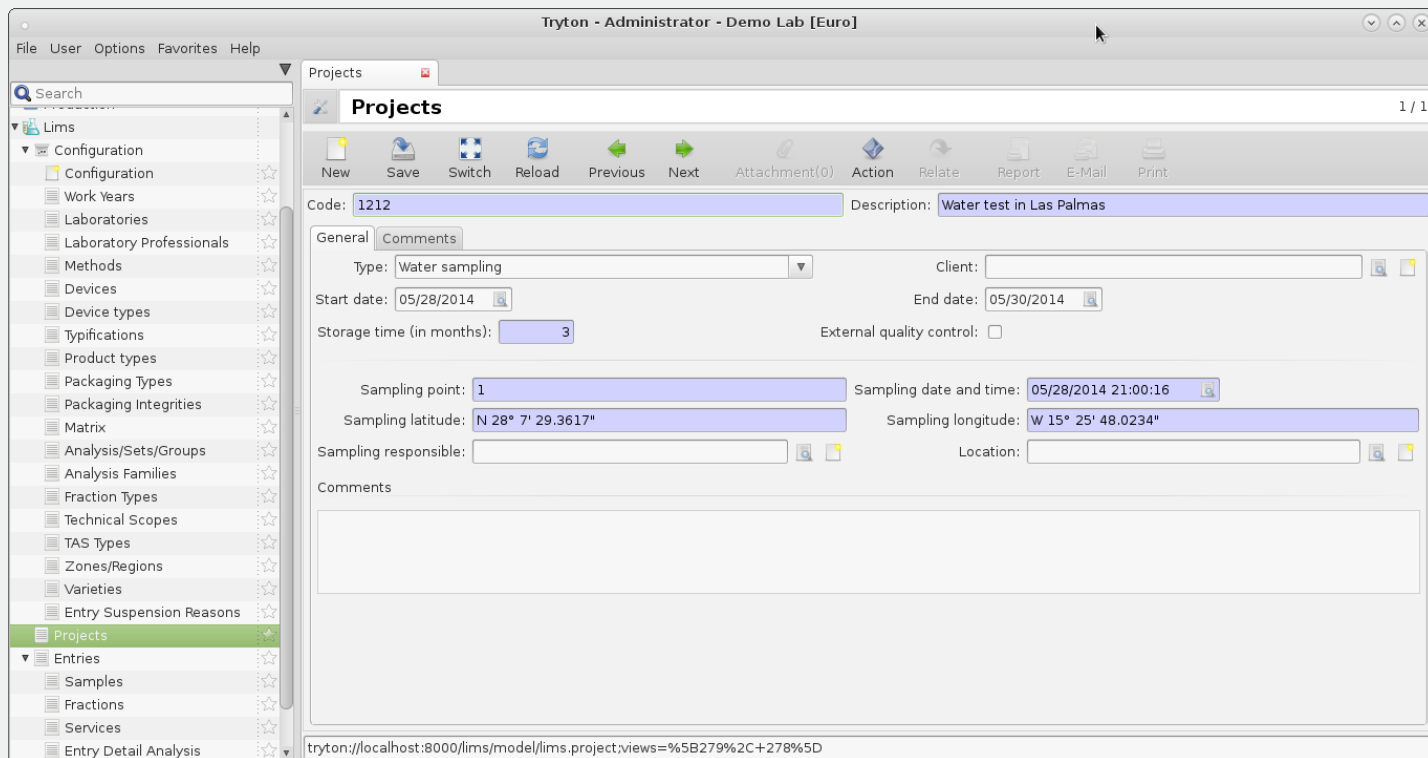
Water



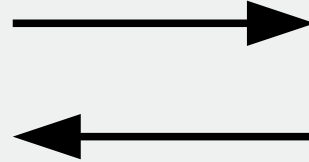
Interlaboratory

Technical Assistance

Study Plans



GNU Health integration



The Free Health and Hospital Information System



Community : CIATI, Argentina



Thank you!

lims.gnu.org

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