

LabVantage ELN & LES

LabVantage Electronic Laboratory Notebook (ELN) and Laboratory Execution System (LES)

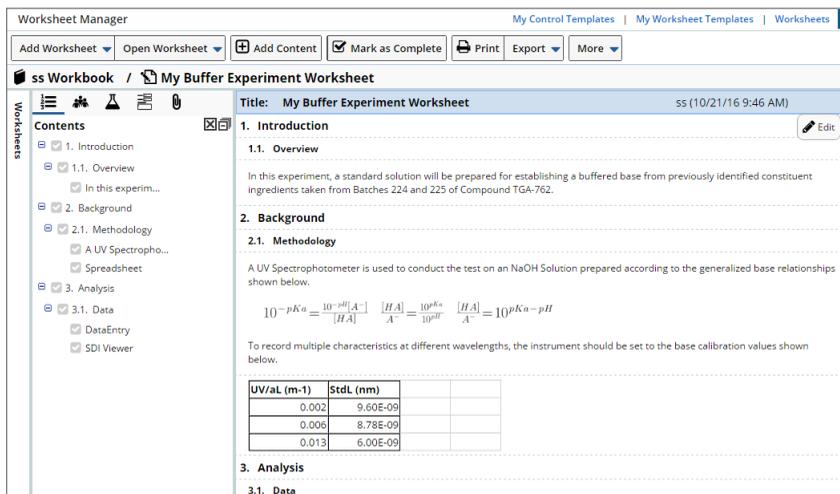
One powerful, fully-integrated platform for your lab.

Eliminate unnecessary paper records with the LabVantage Electronic Laboratory Notebook (ELN) and Laboratory Execution System (LES).

Capture, organize, manage and collaborate experiments and test execution workflows across your organization with ease. With features designed to increase productivity while reducing errors, you can replace your paper lab notebooks and paper method worksheets with confidence. The LabVantage ELN and LES are fully embedded in LabVantage to provide a comprehensive and integrated lab automation solution.

Powerful Benefits

- ELN and LES are embedded into LabVantage maintaining a consistent look and feel
- No need to manage multiple vendor solutions or expensive and complex interfaces to LIMS
- Leverages LabVantage instrument data capture features
- Highly responsive, web browser-based user interface means no client-side installation, validation or maintenance
- Fully HTML 5 compliant means broad browser support (IE, Edge, Chrome, Safari), including tablets



Worksheet Manager

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ss Workbook / My Buffer Experiment Worksheet

Title: My Buffer Experiment Worksheet ss (10/21/16 9:46 AM)

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1. Introduction

1.1. Overview

In this experiment, a standard solution will be prepared for establishing a buffered base from previously identified constituent ingredients taken from Batches 224 and 225 of Compound TGA-762.

2. Background

2.1. Methodology

A UV Spectrophotometer is used to conduct the test on an NaOH Solution prepared according to the generalized base relationships shown below.

$$10^{-pKa} = \frac{10^{-pH}[A^-]}{[HA]} \quad \frac{[HA]}{A} = \frac{10^{pKa}}{10^{pH}} \quad \frac{[HA]}{A} = 10^{pKa-pH}$$

To record multiple characteristics at different wavelengths, the instrument should be set to the base calibration values shown below.

UVwL (m-1)	StdL (nm)
0.002	9.60E-09
0.006	8.78E-09
0.013	6.00E-09

3. Analysis

3.1. Data

Why LabVantage ELN?

- Provides a powerful electronic replacement for paper lab notebooks
- Accommodates structured and unstructured data
- Flexible, on-demand creation of notebook pages
- Fully searchable content
- Provides ability to define teams that can work collaboratively and share research information
- Publish notebooks in PDF and Word formats
- Seamlessly leverage LIMS features from within notebook pages

Sample Id	Test	Status	Description	Metals Test
S-161027-00006	Alkali Metals	Initial		
S-161027-00007	Alkali Metals	Initial		
S-161027-00008	Alkali Metals	Initial		
S-161027-00009	Alkali Metals	Initial		
S-161027-00010	Alkali Metals	Initial		

Scientific Basis for Test: Polyorbate 80 can be measured using spectrophotometric technique. It forms a green colorimetric complex with ammonium cobalthiocyante reagent. The absorbance can be measured at 650 nm. Any proteins present in sample with alcohol. The supernatant will contain the polyorbate. Dichloromethane is used to extract the polyorbate - cobalthiocyante complex. The intensity of the green color is directly proportional to the amount of polyorbate present in the samples and is a green color with a linear regression plot of color intensities for reference standards at a series of known concentrations of polyorbate provides the quantity of polyorbate in samples.

1. Alkali Metals Test

Locate an oven with sufficient space to accommodate the required number of samples

Turn the oven to 220 Celsius and wait 10 minutes for it to reach temperature

Record the actual temperature here

1.1. Equipment

Sample: GC

Add Samples:

2. Alkali Metals - Prep

- Samples may contain protein and will require deproteination
- Prepare each sample in duplicate
- Pipette 3 mL of the diluted sample into each disposable test tube
- Add 15 mL of reagent solution to each test tube
- Vortex and centrifuge for approximately 5 minutes to remove protein
- Carefully decant into the measurement vials according to the...

Done

Why LabVantage LES?

- Provides automatically created, data driven test method worksheets for method execution
- Define, document and enforce method work steps
- Fully document execution of worksheets
- Simple setup and maintenance of worksheet templates



About LabVantage

LabVantage Solutions, Inc., the leading global laboratory informatics provider, is headquartered in Somerset, NJ and has offices around the world. LabVantage's industry-leading solutions and world-class services are the result of 35+ years of experience in laboratory informatics.

LabVantage offers a comprehensive portfolio of products and services that enable companies to innovate faster in the R&D cycle, run labs more efficiently, improve manufactured product quality, achieve accurate recordkeeping and comply with regulatory requirements. LabVantage serves thousands of labs across the globe from industries such as pharmaceutical, biotech, food & beverage, chemicals, CPG and more.

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