

Certificate Of Analysis



Client:

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Sample Identification

Sample Name	Bacteriostatic Water 10 ml	Batch Number	2024214	Date Published	2025-09-13 10:10
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Results for LIQ-0008

Active substances	Result	Unit	Uncertainty	Reporting Limit
Benzyl alcohol content Stabilizers	0.9180	%	[$\pm$ 9e-04]	0.9 - 1.1

Analysis of Peptide Identity, Content and Purity	Result	Unit	Uncertainty	Reporting Limit
pH determination	6.84		[$\pm$ 0.1]	4.5 - 7

Endotoxin Analysis	Result	Unit	Uncertainty	Reporting Limit
Bacterial Endotoxin USP<85> Bacterial Endotoxin Chromogenic Test	Not detected	EU/mg		$\leq$ 0.25

Attachments for LIQ-0008



	Method Specification	
Determination of content of Benzyl alcohol in bacteriostatic water		
Document number BENZOII_001_2025	Signed/checked document	Number of pages

1. Content Assesment

1.1. Instrumentation

Module	Name	Serial Number
System Controller	Shimadzu SCL-10ADvp	C21014112650
Degassing Unit	Shimadzu DGU-14A	NA
LPGE valve	Shimadzu FCV-10Awp	NA
Pump	Shimadzu LC-10ADvp	C20964130094
Autosampler	Shimadzu SIL-10ADvp	C21054109114
Column Thermostat	Shimadzu CTO-10ACvp	C21033770144
Detector	Shimadzu SPD-10ADvp	C20994233588

1.2. Chromatographic conditions

Chromatographic conditions	
Eluent A	Water (HPLC, Gradient Grade)
Eluent B	Acetonitrile (HPLC, Gradient Grade)
Flow rate	0.8 mL/min
Program	Gradient elution
Injection volume	0.5 µL
Column Temperature	40°C
Column	Avantor ACE UltraCore 150x3mm 3.5µm
Detection wavelength	260nm

Gradient Program		
Time [min]	A [%]	B [%]
2	95	5
10	5	95
12	5	95
12.01	95	5
15	end	

1

Attachment for LIQ-0008

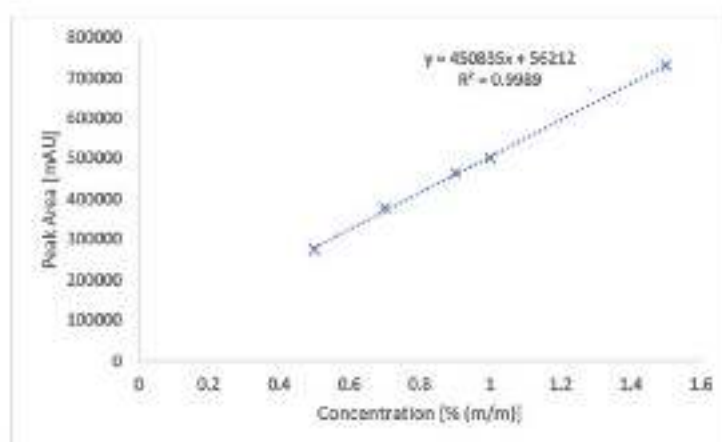
Filename: 1757757680316-327cc467-1ed2-4e67-bebd-b239505c30f6_1.jpg

1.3. Sample preparation

1 mL of sample was pipetted into HPLC vial. 0.5 µL of sample was injected.

1.4. Calibration curve

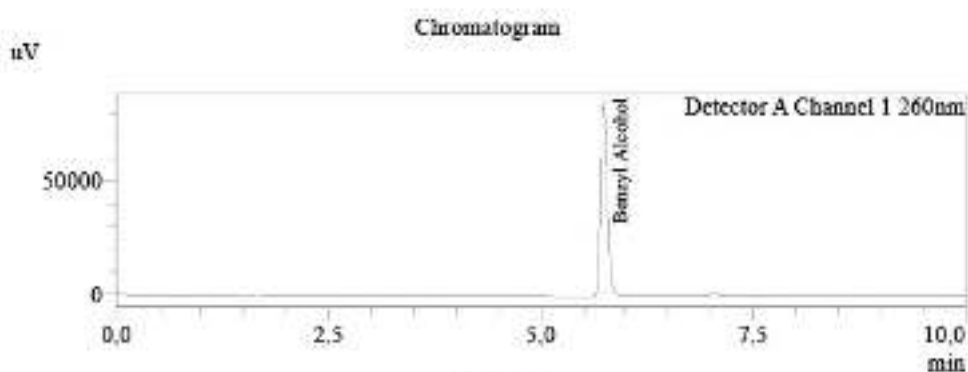
Calibration curve detail	
Quantitative method	External Standard
Calibration Type	Linear
Number of calibration points	5
Force through Zero	Disabled
Weighting Method	None



Analysis Report



Sample Information
Injection Volume : 0.5
Data File : LIQ-0008_005.lcd
Method File : Benzylalcohol.lcm
Date Acquired : 12.09.2025 18:43:24



Peak Table

Detector A Channel 1 260nm					
Peak#	Name	Ret. Time	Conc.	Unit	Area%
1	Benzyl Alcohol	5.733	0.918	% (m/m)	100.000
Total					100.000

Peak Table

Detector A Channel 2 280nm				
Peak#	Name	Ret. Time	Conc.	Unit
1		5.743	0.000	
2		14.553	0.000	
Total				

Attachment for LIQ-0008
Filename: LIQ-0008.jpg

 LIQUILABS análisis de líquidos	Method Specification		
Determination of bacterial endotoxin content of lyophilized samples			
Document number ENDOTOX_001_2025	Specified document ENDOTOX_001_2025	Number of pages 2	

1. Chromogenic LAL Assay Determination of Bacterial Endotoxin content of sample

1.1. Instrumentation

- Pipette set 1-1000 µL
- Thermostatically controlled water bath
- UV-VIS spectrometer (Shimadzu UV-1601)
- GlauScript ToxinSensor Chromogenic LAL Endotoxin Assay kit

1.2. Chemicals

- LAL Reagent water (endotoxin free)
- Limulus Amebocyte Lysate
- LAL Substrate
- Color Stabilizer #1
- Color Stabilizer #2
- Color Stabilizer #3
- 35% HCl (p.a.)

1.3. Sample preparation

1. Sample container was weighed prior to dissolution and measured weight was marked.
2. Sample was completely dissolved in its container by 2 mL of LAL Reagent water.
3. 100 µL of the sample was aliquoted for analysis.
4. After analysis container was emptied and dried.
5. Dry mass of container was measured and exact weight of dissolved content was determined as:

$$m_{dc} = m_{sample} - m_{container}$$

1.4. Toxin sensor Chromogenic LAL Endotoxin Assay kit preparation

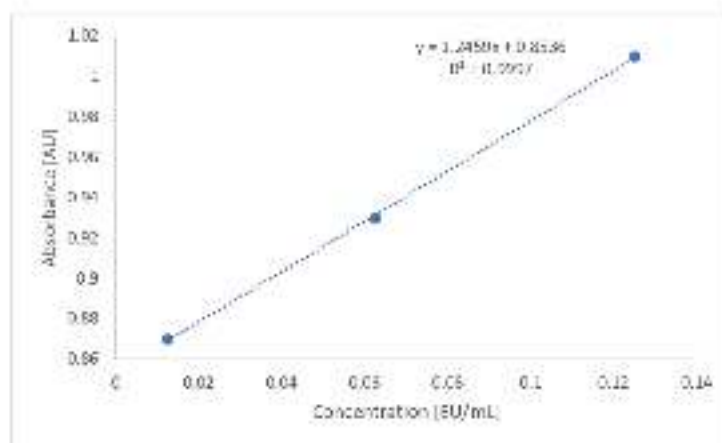
Procedures regarding preparation of reaction solutions possible to find in:

https://www.genscript.com/site/document/5293_20080606231827.PDF

1.5. Measurement procedure

	Standards	Samples	Blank
Standards (mL)	0.1	-	-
Samples (mL)	-	0.1	-
LAL Reagent Water (mL)	-	-	0.1
LAL Solution (mL)	0.1	0.1	0.1
Mix well and incubate at 37°C for 27 min			
Substrate solution (mL)	0.1	0.1	0.1
Mix well and incubate at 37°C for 8 min			
Color Stabilizer #1 solution	0.0	0.0	0.0
Color Stabilizer #2 solution	0.0	0.0	0.0
Color Stabilizer #3 solution	0.0	0.0	0.0
Mix well and read the absorbance at 545nm			

1.6. Calibration curve



1.7. Calculation of endotoxin content

Endotoxin content of the sample was calculated from the calibration curve as:

$$\text{Endotoxin [EU/mg]} = \frac{\left(\frac{ABS_{\text{sample}}}{S_{\text{slope}}} \right) \cdot 20}{m_{\text{sample}}}$$

ABS_{sample} = Measured absorbance of sample

S_{slope} = Slope of calibration curve

m_{sample} = real measured mass of sample

20 = dilution factor of measured sample

2

Attachment for LIQ-0008

Filename: Endotoxin_072025_1_page-0002.jpg

Responsibles



Mr. Ján Galbavý
Founder/Manager

Analysis results relate only to the samples tested.

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