

USP Carbon Dioxide (CO₂) Analysis Report

Client Contact Information

AAL Number:
Received On:
Report Date:
PO Number:

Sample ID. : Carbon Dioxide - Building #____, Room #____, Port # ____ Sampled On:
Sample ID. : Lot # _____, Received in 1L AAL Cylinder #____ Sampled By:

USP 29 Carbon Dioxide Report of Analysis:

<u>Test</u>	<u>Specification</u>	<u>Result</u>
Identification ³	Whole Detector Tube Color Change.	Pass
Water ⁴	Less Than 150 mg/M ³ detected.	Pass
Limit of Ammonia ⁵	Less Than 0.0025% detected.	Pass
Limit of Hydrogen Sulfide ⁶	Less Than 1 ppm detected.	Pass
Limit of Nitric Oxide ⁷	Less Than 2.5 ppm detected.	Pass
Carbon Monoxide ⁸	Less Than 0.001% detected.	Pass
Nitrogen Dioxide ⁹	Less Than 2.5 ppm detected.	Pass
Sulfur Dioxide ¹⁰	Less Than 5 ppm detected.	Pass
Assay ¹¹	Not Less Than 99.0%, by volume, CO ₂ .	Pass, 99.65%

- Comments:**
1. This sample meets USP 29 specifications for Carbon Dioxide.
 2. Testing performed in accordance with USP 29 Carbon Dioxide Monograph.
 3. Gastec[®] Carbon Dioxide Detector Tube No. 2HT QC Lot# 50354, Exp. Date: Nov 07
 4. Drager[®] Water Detector Tube No. 5/a-P QC Lot # WC-1231, Exp. Date: Jul 07.
 5. Sensidyne[®] Ammonia Detector Tube No. 105SD QC Lot# 481124, Exp. Date: May 07
 6. Gastec[®] Hydrogen Sulfide Detector Tube No. 4LT QC Lot# 50223, Exp. Date: Feb 07
 7. Gastec[®] Nitric Oxide Detector Tube No. 10 QC Lot # 41193, Exp Date: Sep 07
 8. Gastec[®] Carbon Monoxide Detector Tube No. 1LK QC Lot# 51212, Exp. Date: May 08
 9. Gastec[®] Nitrogen Dioxide Detector Tube No. 9L QC Lot# 41128, Exp. Date: Sep 07
 10. Gastec[®] Sulfur Dioxide Detector Tube No. 5LC QC Lot# 50458, Exp. Date: Dec 07
 11. Burette & Potassium Hydroxide Solution (Burrell)

Units and Measures:

D.L. = report detection limit. **nd** = indicates the concentration is less than the report detection limit. **na** = not applicable.
L.T. = less than the concentration indicated. **--** = test not performed. **%** = percent. **ppm** = parts per million. **ppb** = parts per billion. **v/v** = volume analyte/volume sample. **w/w** = weight analyte/weight sample. **Unit Conversions:** 0.0001% = 1 ppm.

Approved by,

Data Reviewed by,

Ralph J. Ciotti
Lab Manager

Date

John W. Leatherdale, PE
Director - Quality

Date

Addendum: - Notebook Data, Raw Data and USP 29 CO₂ Report of Analysis on file.

Atlantic Analytical Laboratory, LLC

Mailing address: P.O. Box 220 • Whitehouse, NJ 08888 USA
Shipping address: 291 Rt 22 East • Salem Industrial Park – Building # 4 • Whitehouse, NJ 08888 USA
Phone +1.908.534.5600 • Fax +1.908.534.2017 • www.AtlanticAnalytical.com • www.ImpurityProfiling.com

