



Airborne Labs International

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Carbon Dioxide (CO₂) Analysis Food-Grade Program[®]

Customer Company
Street Address 1
City, State ZIP
Phone: nnn-xxx-xxxx, Cell: nnn-xxx-xxxx, (Fax: nnn-xxx-xxxx)
Attn.: Mr./Ms./Dr. John Smith and Mr./Ms./Dr. Derek Jeter
Sample ID.: Liquid CO₂: " " "
Sample ID.: Received in 2L True Blue MLB Polybag 1.2 + MiniCyl 1.0 + NVR 8.0 No-Haz Kits

ALI Track No.:
Received On:
Report Date:
Payment Mode: PO

Sample Date:
Process Stage: Final

Test Description/Units	Result	LOQ	Food Grade Spec Limits
CO₂ Identification (Pass/ Fail by USP [DT]): -----		5	pass
Comments: Pass = Positive Detector Tube Response.			
CO₂ Purity (% v/v, ISBT 2.0 [GC/DID]):-----		5	99.5 min
Comments: Obtained by difference method			
Water Vapor (H ₂ O, ppm v/v, ISBT 3.0 [EH]):-----		1	20 max
Comments:			
Oxygen (O ₂ , ppm v/v, ISBT 4.0 [GC]): -----		1	50 max
Result represents total O ₂ + Ar ppm v/v.			
Carbon Monoxide (CO, ppm v/v by ISBT 5.0 [GC]):-----		1	10 max
Comments:			
Oxides of Nitrogen (NO _x , ppm v/v, ISBT 7.0 [DT]):-----		0.5	5.0 max total
Comment: 2.5 ppm v/v each max. of NO or NO ₂ allowed or 5.0 ppm v/v Total (NO+NO ₂) max.			
Nitric Oxide (NO, ppm v/v, ISBT 7.1 [DT]): -----		0.5	2.5 max
Nitrogen Dioxide (NO ₂ , ppm v/v, ISBT 7.2 [DT]): -----		0.5	2.5 max
Non-Volatile Residue (NVR, ppm w/w, ISBT 8.0 [Grav]): -----		2	10 max
Comments:			
Total Hydrocarbons (THC, ppm v/v as Methane, ISBT 10.0): -----		0.1	50 max
Comments:			
Acetaldehyde (AA, ppm v/v, ISBT 11.0 [GC]): -----		0.05	0.5 max
Total Sulfur Content (ppm v/v, by ISBT 14.0 [GC]):-----		0.01	0.5 max
Comments: Total sulfur including SO ₂ . VSC speciation required if TSC exceeds 0.5 ppm v/v			
Speciated Volatile Sulfur Compounds (VSC, ppm v/v by ISBT 14.0)			
Hydrogen Sulfide (H ₂ S): -----		0.01	0.5 max
Carbonyl Sulfide (COS): -----		0.01	0.5 max
Sulfur Dioxide (SO ₂): -----		0.01	5.0 max
Comments:			
Sensory Tests			
Odor & Taste in Water (Pass/Fail): -----		pass	none

LOQ = Limit of Quantitation (lowest amount of analyte quantitatively determined with suitable precision and accuracy) **MDL** = method detection limit (lowest amount of analyte detected). **trace** = unquantified amount observed between MDL and LOQ. **nd** = indicates the impurity was not detected (below MDL). -- = test not performed. **na** = not available. **LT** = less than the amount specified. **GT** = greater than the amount specified. % = percent. **ppm** = parts per million. **ppb** = parts per billion. **v/v** = volume analyte/volume sample. **w/w** = weight analyte/weight sample. **[result]** indicates the result was obtained by the method listed within brackets. **TSC*** = ISBT Total Sulfur Content excluding SO₂. **Unit Conversions:** 1ppm v/v = 1µL/L = 1000 ppb = 0.0001% v/v. **Date format:** MM/DD/YY.

Report Summary: Customer requested a food-grade LCO₂ test program. This CO₂ sample meets the requirements of CGA G-6.2-2011: Commodity Specification for Carbon Dioxide Quality Verification Level H-Food Grade.

Reviewed By / Date:

Laboratory Manager mm/dd/yy

Laboratory Manager
Attachments: none
Addendum: Signatures, Instrument & Notebook data on-file

ISO Statement

Statements of conformity (pass or fail) resulting from the test/analysis performed on the above sample will not take into account the reported measurement uncertainty unless otherwise specified. This is a shared risk decision rule in which the customer also has responsibility for determining acceptance of the results. The methods Airborne Labs International uses are developed by Airborne Labs International and are based on the current revisions of international, national, or industry standards unless otherwise specified. Methods can be reviewed by the customer upon request. The acceptance criteria of the above item are based on ISBT specifications, NFPA, CGA, USP, or other industry specifications unless otherwise specified on the contract.



Accreditation # 68099