Supplementary Instructions to TRI's Lab for NFPA99 Medical Gas Tests

Please complete the below information that is applicable to your required analytical test type to ensure tha the laboratory performs the correct types of anlaysis and your final report has the correct information.

The price charged for your sample analysis report is based on the choices that you make on this sheet. Pricing information is available from our sales or order desks.

Analysis Type Selection Menu Check Box ☐ means this analysis will be performed by the lab if a proper test sample is submitted. Choose only those needed. Each check mark increases the price of the analysis.

NFPA99 1999 Edition

TEST NAME REFERENCE	Check Box	TEST REQUIREMENT
1999 Piping Purge 4-3.4.1.3(e)	☐	← Matter • 0.1 mg (no breakdown of oil and particulate reported)
1999 Piping Purity Test 4-3.4.1.3(f) (Difference of Source vs. Outlet)	☐	← Dew Point • 5ºC @50psi (9 ºF@50psi)
	☐	← Total (non methane) Hydrocarbons • 1ppm (except in O2 and N2O)
	or	or
	☐	← Total (non methane) Hydrocarbons in O2 or N2O at additional cost
	☐	← Halogenated Hydrocarbons • 2 ppm
1999 Medical Gas Conc. 4-3.4.1.3(l)	☐	← N2, O2, N2O, CO2 gases >99%
	or	or
	☐	← Medical Air 19.5 to 23.5% O2
1999 Medical Air Purity Test (compressor system) 4-3.4.1.3(j)	☐	← Dew Point • 39ºF(4ºC) @ 50 psi
	☐	← Carbon Monoxide • 10 ppm Carbon Dioxide • 500 ppm Total Hydrocarbons (as methane) • 25 ppm Halogenated Hydrocarbons • 2 ppm

NFPA99 2002 Edition

TEST NAME REFERENCE		TEST REQUIREMENT
2002 Piping Particulate Test 5.1.12.3.7 or 2002 Verifier Piping Particulate Test 5.3.12.3.7 or equivalent	☐	← Matter • 1.0 mg (no breakdown of oil and particulate reported)
2002 Piping Purity Test 5.1.12.3.8 or 2002 Verifier Piping Purity Test 5.3.12.3.8 or equivalent (Difference of Source vs. Outlet except for Water Vapor)	☐	← Water Vapor • 500 ppm Total
	☐	← Total (non methane) Hydrocarbons • 1ppm (except in O2 and N2O)
	or	or
	☐	← Total (non methane) Hydrocarbons in O2 or N2O at additional cost
	☐	← Halogenated Hydrocarbons • 2 ppm
2002 Medical Gas Conc. 5.1.12.3.11 or 2002 Verifier Medical Gas Conc. 5.3.12.3.11 or equivalent	☐	← N2, O2, N2O, CO2 gases >99%
	or	or
	☐	← Medical Air 19.5 to 23.5% O2
2002 Medical Air Purity Test (compressor system) 5.1.12.3.12	☐	← Dew Point • 39ºF(4ºC) @ 50 psi
	☐	← Carbon Monoxide • 10 ppm Carbon Dioxide • 500 ppm Total Hydrocarbons (as methane) • 25ppm Halogenated Hydrocarbons • 2 ppm

NFPA99 2005 Edition

TEST NAME REFERENCE		TEST REQUIREMENT
2005 Piping Particulate Test 5.1.12.3.7 or 2005 Verifier Piping Particulate Test 5.3.12.3.6 or equivalent	☐	← Matter • 1.0 mg (no breakdown of oil and particulate reported)
2005 Piping Purity Test 5.1.12.3.8 (Difference of Source vs. Outlet except for Water Vapor)	☐	← Water Vapor • 500 ppm Total
	☐	← Total (non methane) Hydrocarbons • 5 ppm (except in O2 and N2O)
	or	or
	☐	← Total (non methane) Hydrocarbons in O2 or N2O at additional cost
	☐	← Halogenated Hydrocarbons • 5 ppm
2005 Verifier Piping Purity Test 5.3.12.3.7 or equivalent (Difference of Source vs. Outlet except for Water Vapor)	☐	← Water Vapor • 500 ppm Total
	☐	← Total (non methane) Hydrocarbons • 1 ppm (except in O2 and N2O)
	or	or
	☐	← Total (non methane) Hydrocarbons in O2 or N2O at additional cost
	☐	← Halogenated Hydrocarbons • 2 ppm
2005 Medical Gas Conc. 5.1.12.3.11	☐	← O2 97%, N2, N2O, CO2 gases 99%
	or	or
	☐	← Medical Air 19.5 to 23.5% O2
2005 Verifier Medical Gas Conc. 5.3.12.3.10	☐	← O2 or N2O, 99%
2005 Medical Air Purity Test (compressor system) 5.1.12.3.12	☐	← Dew Point • 39ºF(4ºC) @ 50 psi
	☐	← Carbon Monoxide • 10 ppm Carbon Dioxide • 500 ppm Total Hydrocarbons (as methane) • 25ppm Halogenated Hydrocarbons • 2 ppm

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Lab use only:	GAS	1	2	3	4