



NUCON International, Inc.

I-Lab ID# **U572**
 Client: **NUCON International**
 Plant: **NUCON International**
 Sample ID: **BATCH 407**
 System ID: **LOT 55**

NUCON **11KITEG013/605**
 P.O. No.: **NUSORB KITEG II**
 Rel. No.:
 Test Date: **11-Aug-2012**

Standard(s): **ASTM D3803-1989**

<u>Parameter</u>	<u>Nominal Conditions</u> ¹	<u>Actual Conditions</u> ²
Pre-Equilibration Time (min)	960	960
Equilibration Time (min)	120	120
Challenge Time (min)	60	60
Elution Time (min)	60	60
Challenge Agent	CH3I	CH3I
Agent Concentration (mg/m ³)	1.75	1.75
Test Bed Depth (mm)	50	50
Test Bed Diameter (mm)	50	50
Number of Beds	1	1
Pre-Equilibration Temp. (°C)	30	29.95 ± 0.02
Equilibration Temp. (°C)	30	29.96 ± 0.01
Challenge Temp. (°C)	30	29.96 ± 0.05
Elution Temp. (°C)	30	29.98 ± 0.04
Velocity (m/min)	12.2	12.20 ± 0.00
Relative Humidity (%)	95	94.85 ± 0.04
Pressure (kPa)	101.3	98.93 ± 0.12

¹ Tolerances are in accordance with the listed test method(s) and NUCON 13-248 Rev. 2.

² Actual Value or Time Weighted Average ± Standard Deviation as applicable

* Denotes a condition specified by the client that is an exception to the test method(s).

<u>Test Results</u>		
	<u>Actual & Standard Deviation</u> ³	<u>Acceptance Criteria</u>
	Bed 1	Bed 1
Penetration	0.434% ± 0.004	n/a
Efficiency	99.566% ± 0.004	n/a

³ The standard deviation indicated above is associated with the precision of the radio-iodine measurement process. The actual accuracy of the penetration result must be estimated from interlaboratory bias and precision data used to support the ASTM standard. For the ASTM standard, this data indicates that for laboratories which rigorously follow the test method, the relative standard deviation of a 1% penetration result is approximately ±25% and of a 10% penetration result is approximately ±6%. (Ref. ASTM D3808-1989)

Performed By _____ Date 13-Aug-12
 Greg Glasco ANSI N45.2.6 Level II Since Oct. 2002

Approved By _____ Date _____
 Curtis E. Graves ANSI N45.2.6 Level III since Sept 1986