

Nicotine Metabolites in Human Urine (Frozen)

Art. ID	NIST-3671
Unit	3 vials x 10 mL
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM®) is intended primarily for use in evaluating the accuracy of procedures for the determination of nicotine metabolites in human urine. It is also intended for use in validating working or secondary reference materials. NIST-3671 was prepared from normal human urine collected from three different populations: nonsmokers without environmental exposure to tobacco smoke, nonsmokers with exposure to secondhand smoke, and smokers who smoke at least one pack of cigarettes per day. A unit of NIST-3671 consists of three vials, each containing 10 mL of frozen human urine, one bottle each of three levels. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Level 2, certified value	Cotinine (total)		325,5 ± 17,4	ng/g		
Level 3, certified value	Nicotine (free)	[54-11-5]	1436 ± 93	ng/g		
Level 3, certified value	3-Hydroxycotinine (free)		4899 ± 108	ng/g		
Level 1, reference value	Caffeine (free)	[58-08-2]	752,8 ± 83,9	ng/g		
Level 1, reference value	Theobromine (free)	[83-67-0]	4260 ± 584	ng/g		
Level 2, reference value	Nicotine (free)	[54-11-5]	113,5 ± 20,0	ng/g		
Level 2, reference value	Nicotine glucuronide		77,9 ± 27,3	ng/g		
Level 2, reference value	Nicotine (total)	[54-11-5]	143,1 ± 4,8	ng/g		
Level 2, reference value	Cotinine glucuronide		194,2 ± 42,4	ng/g		
Level 2, reference value	3-Hydroxycotinine (free)		493,9 ± 44,0	ng/g		
Level 2, reference value	3-Hydroxycotinine (total)		677,6 ± 77	ng/g		
Level 2, reference value	Cotinine-N-oxide (total)		46,3 ± 5,2	ng/g		
Level 2, reference value	Nicotine-N-oxide (total)		68,4 ± 8,4	ng/g		

e)				
Level 2, reference value	Caffeine (free)	[58-08-2]	833,3 ± 58,3		ng/g
e					
Level 2, reference value	Ibuprofen (free)	[15687-27-1]	1131 ± 122		ng/g
e					
Level 2, reference value	Theobromine (free)	[83-67-0]	5529 ± 704		ng/g
e					
Level 3, reference value	Nicotine (total)	[54-11-5]	1274 ± 147		ng/g
e					
Level 3, reference value	Cotinine (free)		1164 ± 294		ng/g
e					
Level 3, reference value	Cotinine glucuronide		1629 ± 441		ng/g
e					
Level 3, reference value	Cotinine (total)		2335 ± 190		ng/g
e					
Level 3, reference value	3-Hydroxycotinine (total)		6424 ± 612		ng/g
e)				
Level 3, reference value	Cotinine-N-oxide (total)		485,4 ± 37,6		ng/g
e)				
Level 3, reference value	Nicotine-N-oxide (total)		627,0 ± 44,6		ng/g
e)				
Level 3, reference value	Caffeine (free)	[58-08-2]	1086 ± 380		ng/g
e					
Level 3, reference value	Ibuprofen (free)	[15687-27-1]	4469 ± 241		ng/g
e					
Level 3, reference value	Theobromine (free)	[83-67-0]	3311 ± 341		ng/g
e					
Level 1, informational value	Nicotine (free)	[54-11-5]	13		ng/g
Level 1, informational value	Cotinine (free)		0,4		ng/g
Level 1, informational value	Cotinine (total)		0,6		ng/g
Level 1, informational value	3-Hydroxycotinine (free)		1,2		ng/g
Level 1, informational value	3-Hydroxycotinine (total)		0,6		ng/g
Level 2, informational value	Cotinine (free)		133		ng/g

value			
Level 2, informational	3-Hydroxycotinine glucu	160	ng/g
value	ronide		
Level 3, informational	3-Hydroxycotinine glucu	2244	ng/g
value	ronide		