

Single Substitution Data Sheet
(Optional Sequence A)
SXX

Laboratory data and conditions:

Operator	DN		
Date	6/6/2002	Temperature	21.5 C
Balance	CC 111	Pressure	700 mm Hg
Nominal Load	100 g	Relative Humidity	45 %
Standard deviation of the process, from control chart, s_p			0.006 0 mg

Mass standard(s) data:

ID	Nominal	Mass Correction* (mg True)	Expanded Unc: From Cal. Rpt. (mg)	Unc: k factor	Density g/cm ³
S (Primary)	100 g	0.531	0.012	2	8
X (W)	100 g	TBD	TBD	2	7.84
sw	50 mg	- 0.332	0.000 85	2	7.95
S_c	100 g	0.400	0.027	2	7.95

Mass Correction = *True Mass* if using buoyancy correction. Mass Correction = Conventional Mass if NOT using buoyancy correction. Density is used only with buoyancy corrections.

Observations:

Observation No.	Weights	Balance Observations, g	
Time: 9:15 am			
1 (O_1)	$S + t_s$	14	984 402 g
2 (O_2)	$X + t_x$	14	984 385 g
3 (O_3)	$X + t_x + sw$	15	034 284 g
Time: 9:25 am			

Measurement Assurance (Duplication of the Process):

Observation No.	Weights	Balance Observations, g	
Time: 9:30 am			
1 (O_1)	$S + t_s$	14	984 399 g
2 (O_2)	$S_c + t_{Sc}$	14	984 270 g
3 (O_3)	$S_c + t_{Sc} + sw$	15	034 172 g
Time: 9:40 am			

Note: dotted line represents decimal point