

SAMPLE DATA SHEET FOR FIBER ANALYSIS

SAMPLE #	SOURCE	FIBER TYPE	FLAME TESTS		MICROSCOPIC EXAMINATION
			NEAR FLAME	IN FLAME	
1	Mrs. Robinson	100% cotton	rapid burn	keeps burning white tip, no ash	long, rough strands
2	Mr. Bates	nylon	melts	self-extinguishes hard tip at end	long, smooth strands tangled
3	Miss Marpole	silk	burns	self-extinguishes black ash	long, smooth strands mostly untangled
4	Mr. Rogers	acrylic	melts, burns	burns rapidly keeps burning black, hard end no ash	long, very smooth strands tangled
5	Ms. Hathaway	rayon	burns	keeps slowly burning black ash	smooth strands very closely packed
6	Mr. Dillon	polyester	melts	keeps burning black bead on end, black ash	rough, closely packed braided slightly
7	evidence	unknown	rapid burn	keeps burning white tip, no ash	rough strands

RESULT: Unknown fiber most likely is 100% cotton and matches fiber from Mrs. Robinson