

Table S1. Additional Details of Chemical Composition of Non-purulent, Purulent, and Cystic Fibrosis Sputum^{a,b}

Constituent	Non-Purulent ^c (n = 213)	Purulent (n = 322)	Cystic Fibrosis (n = 468)
Water (mg/ml)	959 ± 15	939 ± 17	862 ± 35 ^d
Macromolecular dry weight (MDW, mg/mL)	43 ± 2.4	61 ± 7.6 ^d	98 ± 13.4 ^d
Protein, mg/mL	13.6 ± 1.2	19.1 ± 4.9 ^d	42.2 ± 19.4 ^d
Lipid, mg/mL	10.9 ± 0.6	19.0 ± 1.5 ^d	33.5 ± 4.1 ^d
Phosphatidylcholine (% of total lipid)	0.27 %	0.36 %	52.3 % ^d
Carbohydrate, mg/mL	8.8 ± 1.1	12.4 ± 1.6 ^d	14.6 ± 2.5
Fucose (% of total sugar)	18.3 %	17.6 %	13.7 %
Sialic acid (% of total sugar)	16.9 %	20.7 %	27.1 %
DNA, mg/mL	0.006 ± 0.003	0.88 ± 0.26 ^d	2.88 ± 1.36 ^d
No. samples assayed ^b	213	322	468
No. of patients ^b	191	287	117

^a Data expressed as mg/ml sputum ± S.D., unless otherwise indicated.

^b Number of samples assayed (n), 4 separate samples assayed per CF patient, 1 - 2 samples for other patient types (non-purulent non-CF, and purulent non-CF specimens).

^c Non-purulent sputum is defined as that having less than 0.025 % DNA content (based on MDW).

^d Significance of p < 0.005, Student's t-test, compared with non-purulent and purulent values.