

Supplementary Table SI. 2-DE electrophoretic behavior and MALDI-TOF coverage of

B. anthracis secreted proteins identified in this study

Spot number (accession number)	MW (kDa) (Predicted) Observed	PI (Predicted*) Observed	No. of peptides (% coverage)	Spot number (accession number)	MW (kDa) (Predicted) Observed	PI (Predicted*) Observed	No. of peptides (% coverage)
1 (BA4539)	(65.8) 65.8	(4.70) 4.7	12 (36.0)	41 (BA2793)	(45.3) 48	(6.20) 6.5	9 (30.2)
2 (BA1295)	(83.7) 82	(5.30) 5.2	22 (35.2)	42 (BA1449)	(43.4) 47	(6.27) 6.5	6 (21.0)
3 (BA3367)	(62.0) 65.5	(4.80) 4.8	15 (44.0)	43 (BA3162)	(55.0) 50	(6.25) 6.5	10 (20.8)
4 (BA0267)	(57.4) 65	(4.80) 4.5	19 (38.8)	45 (pXO1-15)	(15.8) 15	(9.41) 9.5	3 (35.4)
5 (BA5364)	(46.4) 50	(4.80) 4.5	14 (54.0)	46 (BA0599)**	(58.4) 35	(5.79) 6	7 (40.3)
6 (pXO1-110)	(83.4) 83	(5.80) 4-6	22 (46.0)	47 (BA0887)	(88.7) 90	(5.70) 6	15 (28.2)
7 (BA0685)	(43.6) 55	(6.34) 6.5	11 (38.6)	48 (BA3338)	(37) 35	(5.40) 5.5	13 (43.0)
8 (BA1191)	(59.4) 52	(6.18) 7.5	8 (12.5)	49 (BA3737)	(61.1) 65	(5.50) 6	9 (26.5)
8 (BA0656)	(64.0) 52	(6.84) 7.5	8 (15.9)	50** (BA0898)	(55.5) 30	(8.40) 9.5	8 (25.9)
9 (BA4322)	(54.8) 58	(5.60) 5.8	15 (39)	51 (pXO1-90)	(73.0) 78	(9.01) 8	16 (45.7)
10 (BA5470)**	(73.5) 50	(6.50) 6.5	7 (59.4)	52 (pXO1-107)	(90.2) 90	(5.80) 7	22 (30.6)
11 (BA3660)	(35.3) 37	(5.50) 6	14 (47.0)	53 (BA1436)**	(72.2) 58	(7.60) 7	4 (22.0)
17 (BA3588)	(29.5) 44.8	(6.02) 6.5	6 (33.0)	54*** (BA1075)	(64.0) 90	(5.42) 6	10 (41.5)
18 (BA3189)	(32.6) 35	(5.62) 6	9 (44.3)	55 (BA2283)	(71.0) 60	(6.30) 5.5	7 (14.2)
19 (BA0885)	(83.8) 85	(6.20) 7	17 (34.1)	56 (BA0796)	(38.3) 38	(8.66) 9	5 (23.5)
20 (BA1197)	(60.0) 60	(6.01) 6	21 (39.1)	57 (BA4346)	(82.6) 82	(5.19) 5	12 (30.8)
21*** (BA1290)	(19) 27	(4.61) 4.5	4 (34.2)	58 (BA2460)	(50.6) 50	(6.30) 6.5	6 (13.9)
22** (BA0703)	(30.6) 27	(6.41) 6.5	8 (41.2)	59 (BA5427)	(45.0) 47.7	(6.48) 7	13 (40.0)
23 (BA0228)	(72.7) 75	(5.75) 6	6 (22.2)	60 (pXO1-122)	(89.3) 87	(6.80) 5.5	11 (20.9)
27 (NT05BA5430)	(65.7) 69	(5.36) 5.5	12 (29)	61 (BA0307)	(42.8) 45	(5.90) 6.5	11 (36.0)
28 (BA0908)	(57.5) 56	(6) 6.5	13 (37.1)	62 (BA2673)	(47.9) 50	(8.73) 9.5	19 (40.3)
29 (BA2947)**	(70.8) 50	(6.50) 7	11 (56.0)	63 (BA3854)	(36.5) 40	(6.41) 8	12 (50.2)
30 (BA0855)	(26.9) 30	(7.19) 8	7 (41.6)	64 (BA5696)	(24.0) 25	(5.70) 6	6 (45.0)
31 (BA4750)	(27.2) 30	(6.93) 7.5	7 (43.6)	65 (BA5220)	(27.9) 30	(6.20) 6.5	11 (47.0)
32 (BA2230)	(18.6) 18.5	(5.11) 5.1	8 (85.8)	66 (BA2827)	(20.5) 20	(7.52) 9	5 (28.3)
33 (BA3346)	(44.9) 47	(5.46) 5.5	5 (16.9)	67 (BA0345)	(20.7) 25	(4.91) 5	7 (47.0)
34 (BA2944)	(26.8) 30.7	(6.36) 6.4	10 (48.7)	68 (BA4705)	(47.2) 44	(4.60) 5	4 (23.3)
36 (BA0165)	(74.5) 70	(5.22) 4.5	4 (12.6)	69 (BA3645)	(61.1) 61	(6.10) 6.5	8 (22.2)
37 (BA3560)	(33.1) 40	(8.48) 9	6 (22.1)	70 (BA4387)	(39.9) 40	(5.30) 6	6 (24.0)
38 (BA1952)	(41.5) 40	(9.67) 10	6 (24.1)	71 (BA4873)	(40.1) 40	(5.35) 6	12 (48.0)
39 (BA0799)	(37.0) 45	(5.95) 7	11 (45.7)	72 (BA5249)	(85.5) 85	(6.91) 6.5	7 (11.4)
40 (BA0331)	(39.7) 38	(6.54) 6.5	10 (38.3)	73 (pXO1-130)	(27.7) 23	(6.12) 6.5	6 (42.6)

Notes to Supplementary Table SI:

*The calculated masses of putative export signal peptides were removed from the values of the predicted masses.

**Six proteins (spots: 10, 22, 29, 46, 50, 53) detected in the secretome represent proteolytically processed forms of lower mass. The domains retained in the processed forms were identified in the MALDI-TOF spectra. See text for details.

***Proteins BA1290 (spot 21) and BA1075 (spot 54) exhibit an observed mass significantly higher than predicted, indicative of possible post-translation modifications.