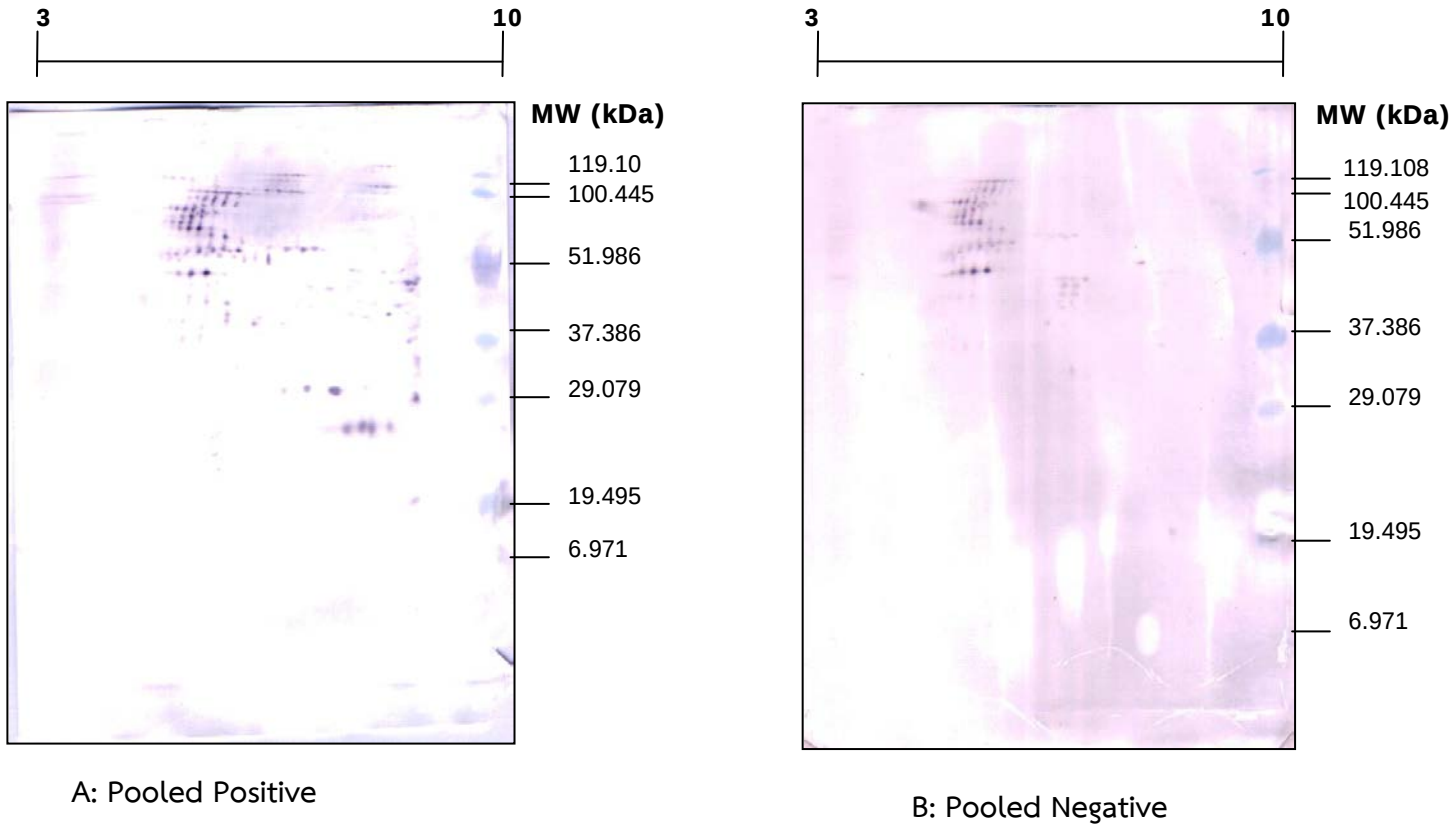
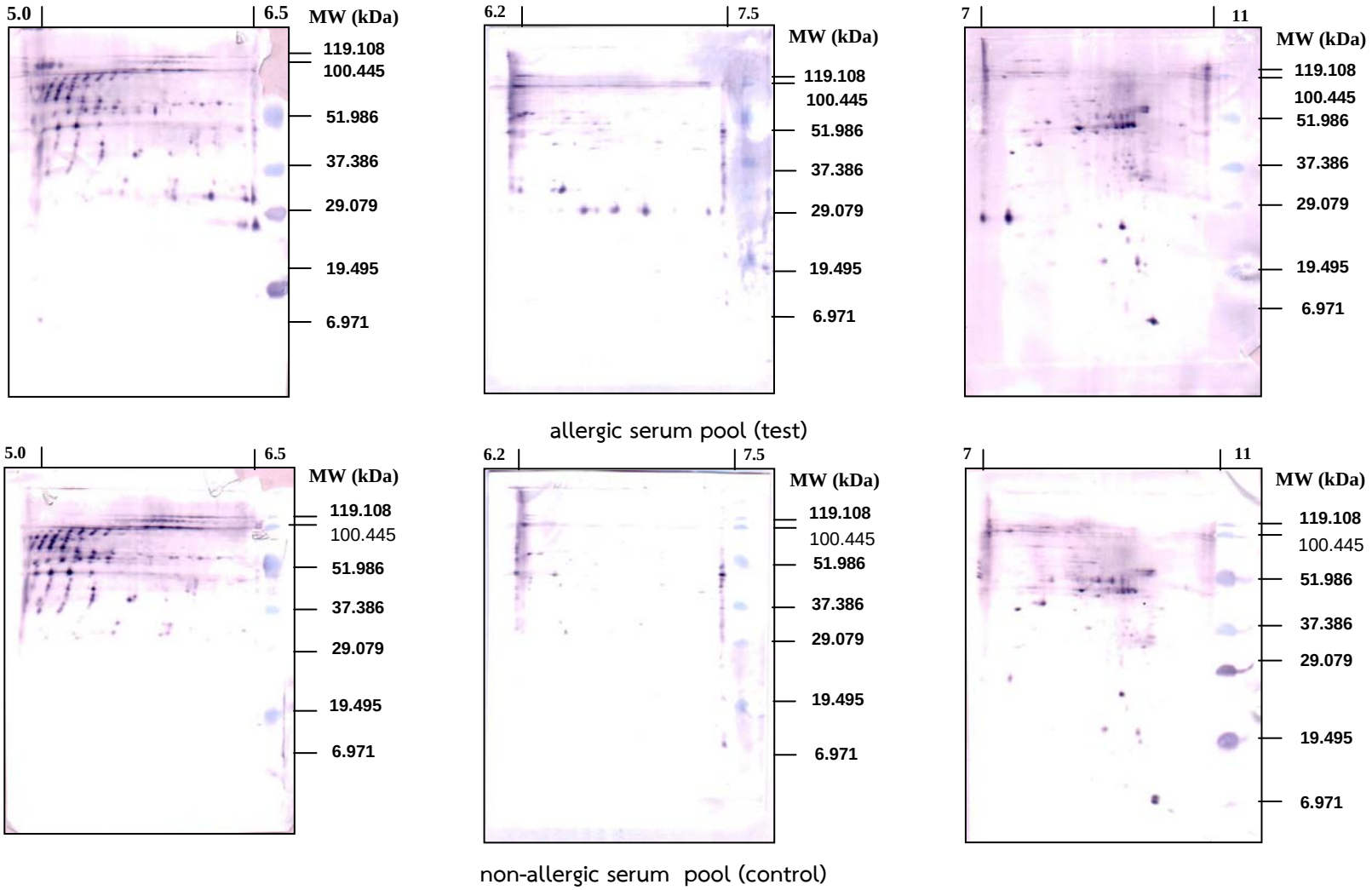
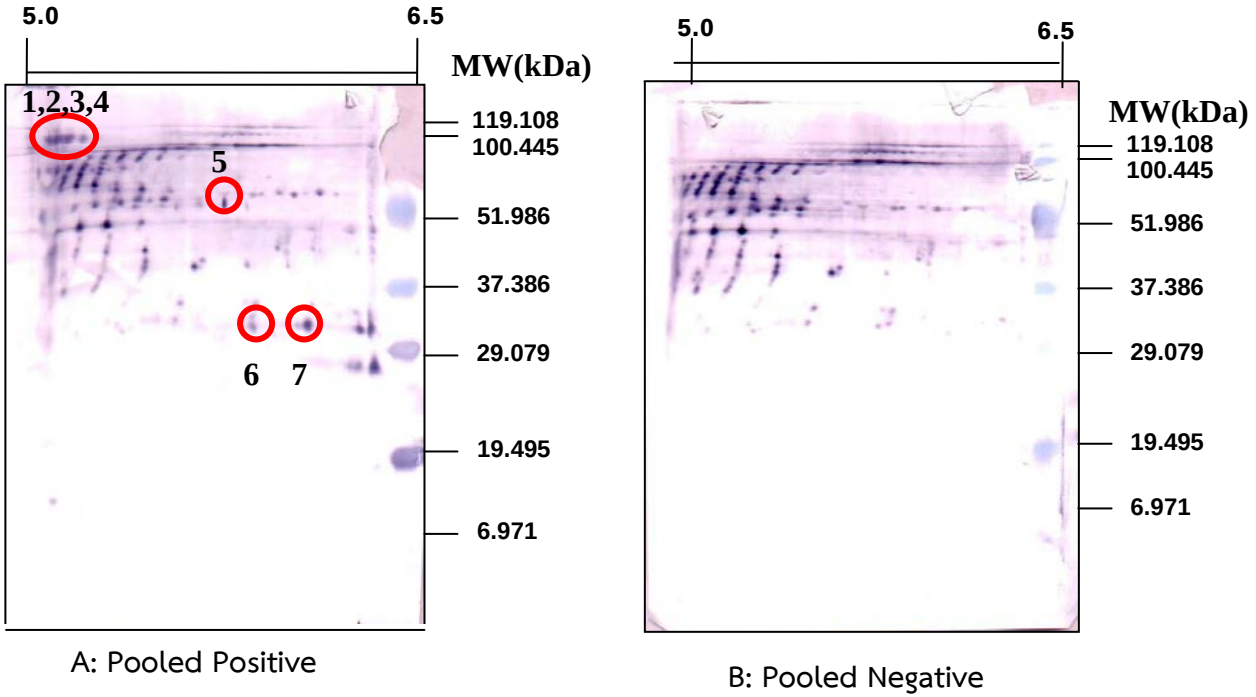


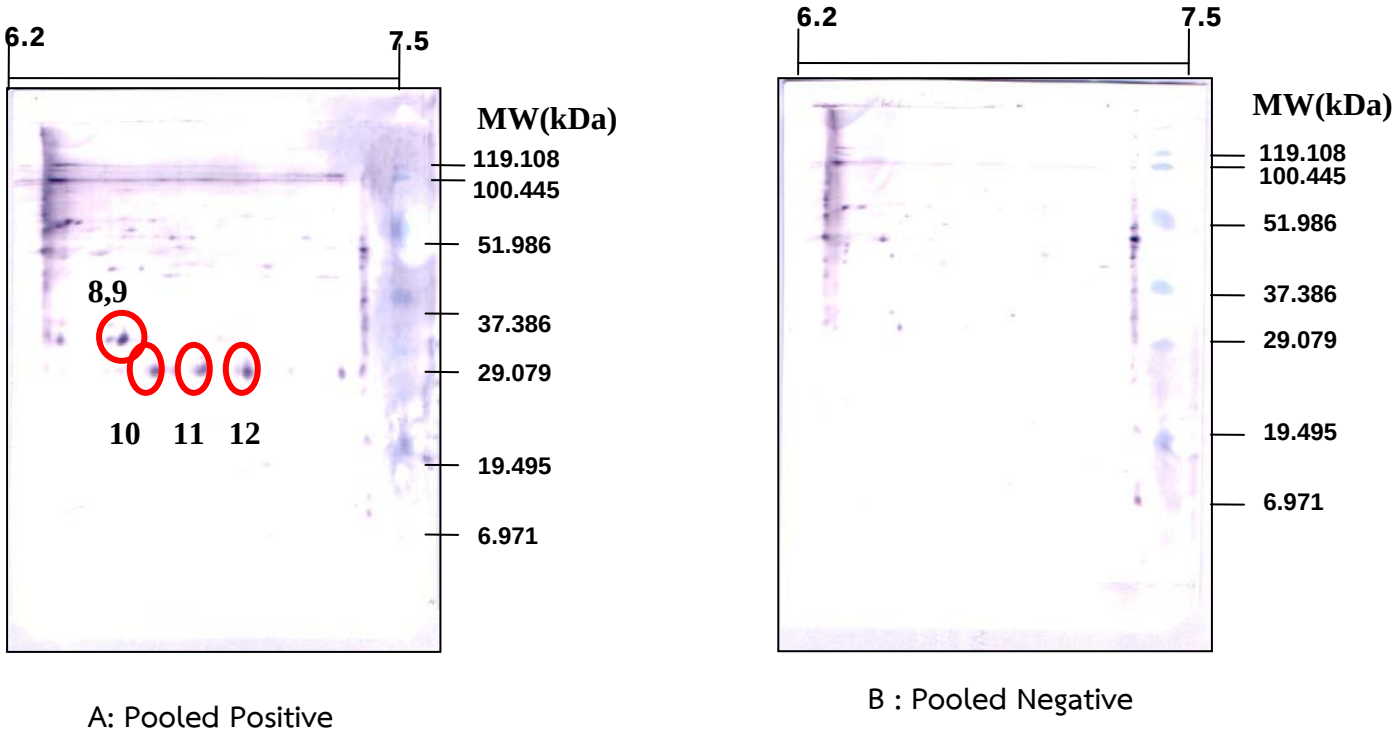
รูปที่ 3.10 Two dimensional immunoblot analysis from crude extract of *D. pteronyssinus* at the pH 3-10, NL; the blot probed with the allergic serum pool (A) compare with non-allergic serum pool (B).



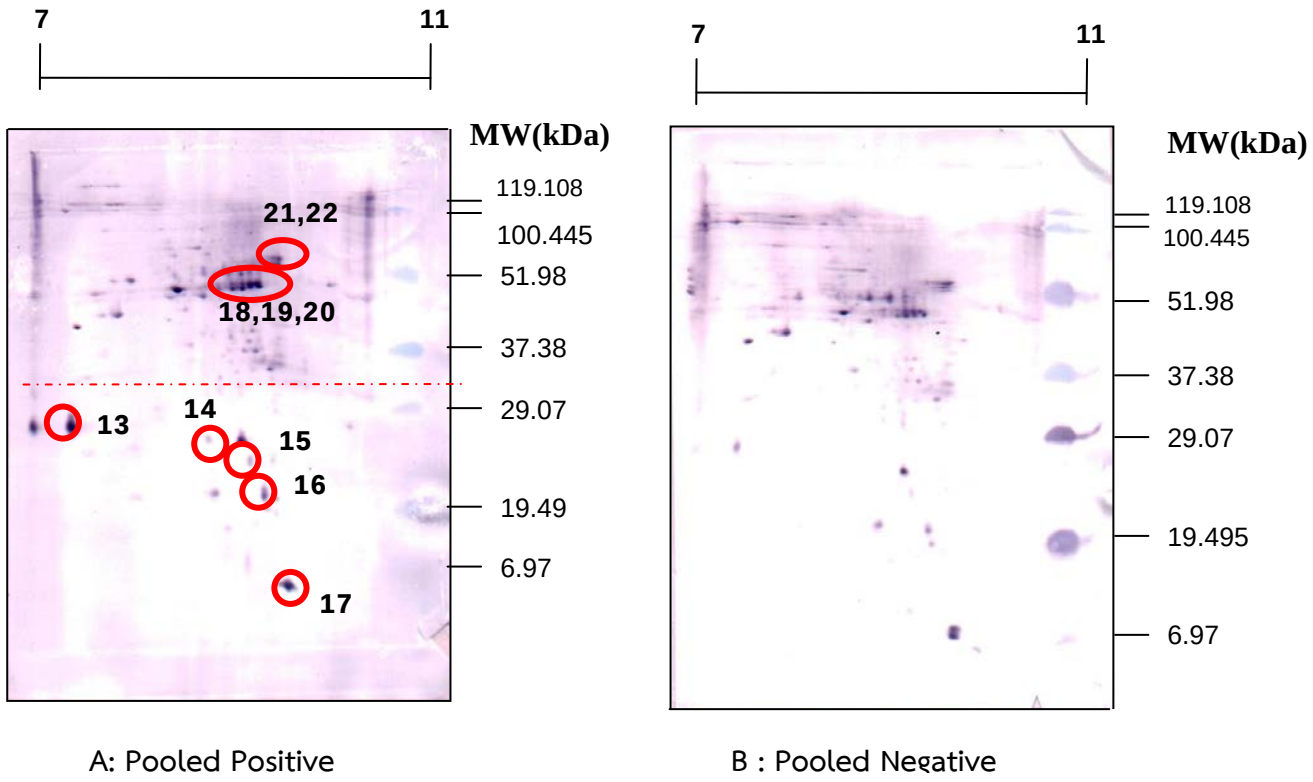
รูปที่ 3.11 Two dimensional immunoblot analysis for identification of main *D. pteronyssinus* allergens in various pH ranges probed with allergic serum pool compare with non-allergic serum pool.



รูปที่ 3.12 Two dimensional immunoblot analysis from crude extract of *D. pteronyssinus* at the pH 5.0-6.5 the blot probed with the allergic serum pool (*A*) compare with non-allergic serum pool (*B*). Circles and the indicated numbers in *A* are protein spots which were subjected to LC/MS.



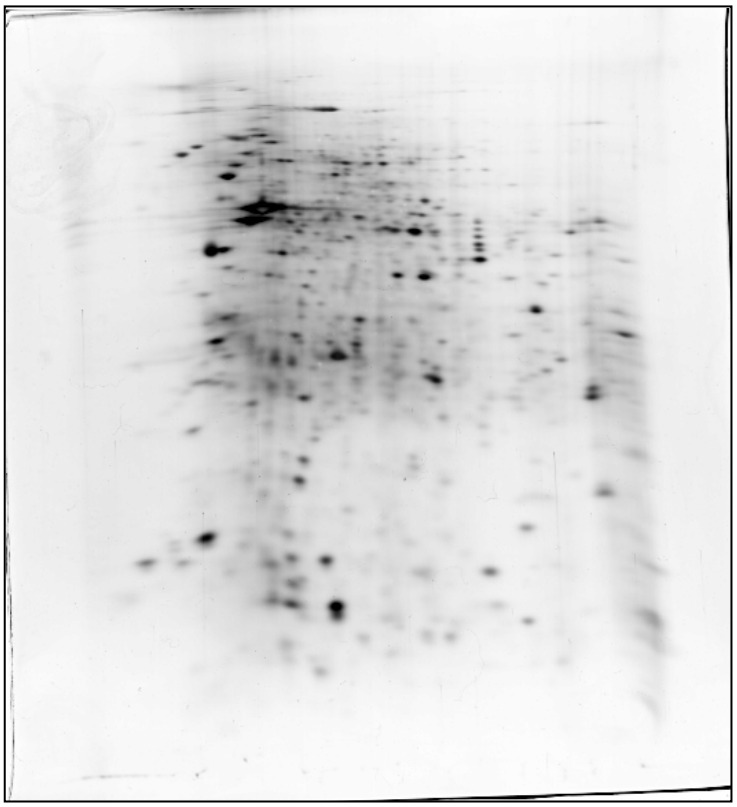
รูปที่ 3.13 Two dimensional immunoblot analysis from crude extract of *D. pteronyssinus* at the pH 6.2-7.5; the blot probed with the allergic serum pool (*A*) compare with non-allergic serum pool (*B*). Circles and the indicated numbers in *A* are protein spots which were subjected to LC/MS.



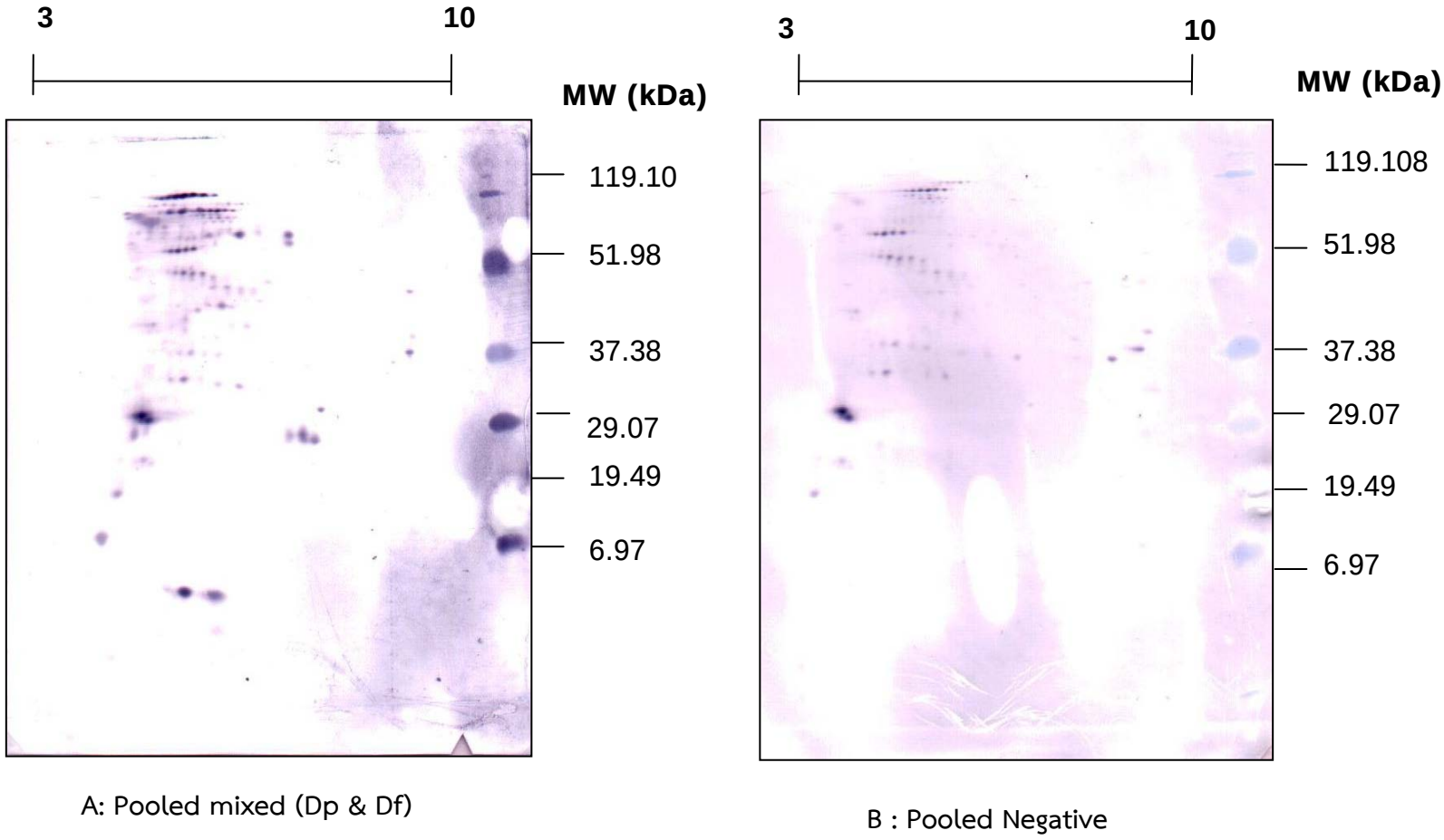
รูปที่ 3.14 Two dimensional immunoblot analysis from crude extract of *D. pteronyssinus* at the pH 7-11; the blot probed with the allergic serum pool (*A*) compare with the non-allergic serum pool (*B*) Circles and the indicated numbers in *A* are protein spots which were subjected to LC/MS.

ตารางที่ 3.4 The molecular mass and *pI* of the IgE-reactive proteins spots from the 2DE-gel after analyzing by mass spectrometry with the protein database.

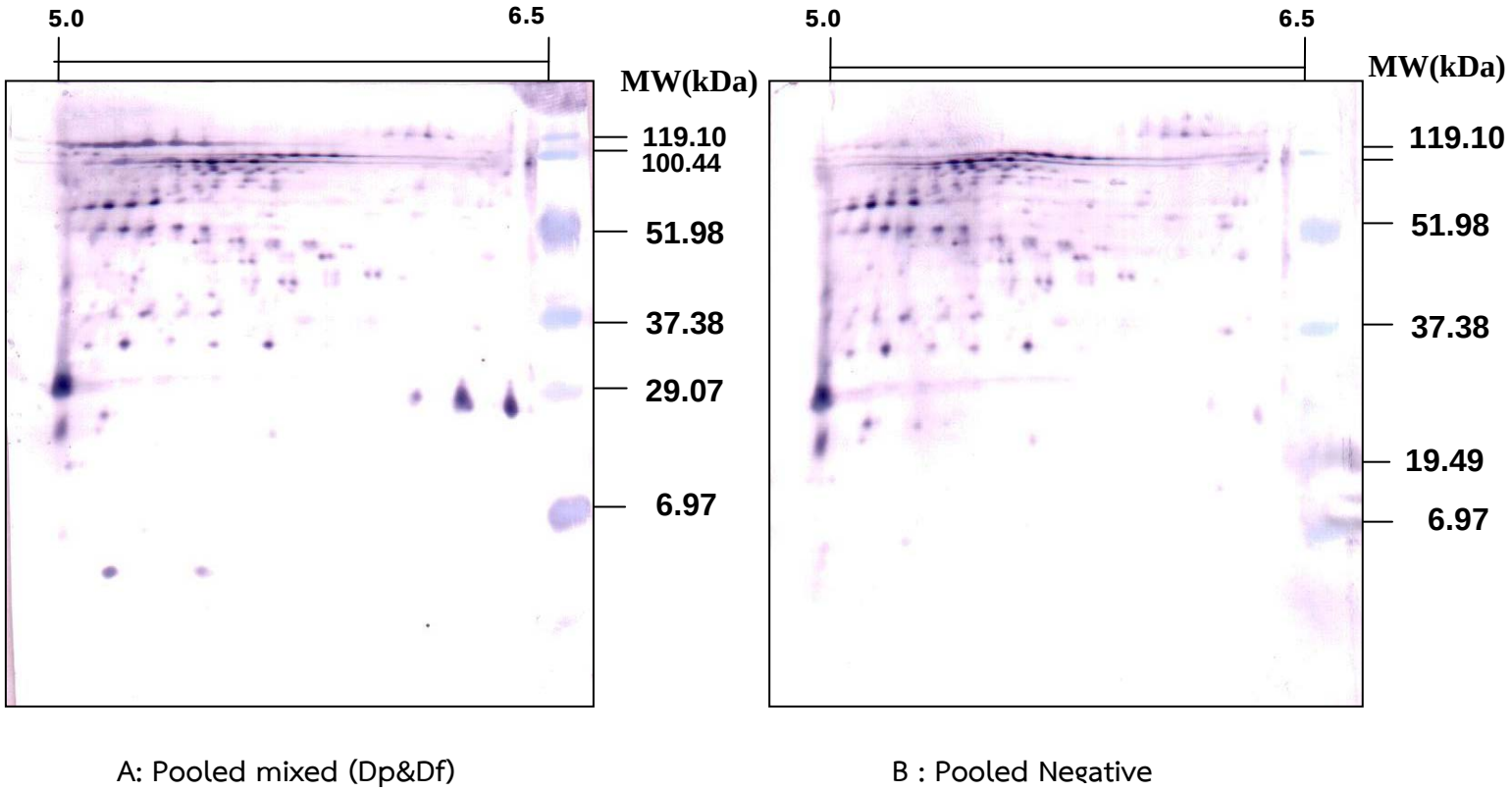
Spot no.	Homoloque protein	*pI*	Mw (kDa)
1	Myosin heavy chain	5.86	224.42
2	Paramyosin allergen *[Blomia tropicalis]*	5.65	102.02
3	Paramyosin allergen *[B. tropicalis]*	5.65	102.02
4	Paramyosin allergen *[B. tropicalis]*	5.65	102.02
5	Group 14 allergen protein [*D. pteronyssinus*]	8.0	190.66
6	A Chain A, Crystal Structure of the major house dust mite allergen Der P 1	5.85	353.83
7	Glutathione transferase mu class Dp7019C10 [*D. p*]	8.51	256.69
8	glutathione transferase delta-like Dp7018E11 [*D. p*]	6.66	266.52
	glutathione transferase delta-like Dp7018E11 [*D. p*] - new		
9	glutathione transferase delta-like Dp7018E11 [*D. p*] beta-galactosidase [Oryza sativa (japonica cultivar-group)] new	6.66	266.52
10	Triosephosphate Isomerase (E.C.5.3.1.1) Mutant with 15 Residues (68 - 82) Replaced By 8 Residues		
11	0905238A keratin subunit, epidermal		
12	B Chain B, Porcine E-Trypsin (E.C.3.4.21.4)		
13	beta-galactosidase [Oryza sativa (japonica cultivar-group)]		
14	B Chain B, Porcine E-Trypsin (E.C.3.4.21.4)		
15	molecular chaperone DnaK [Salmonella enterica subsp. enterica serovar Choleraesuis str. SC-B67] keratin-10		
16	K1C10_HUMAN Keratin, type I cytoskeletal 10 (Cytokeratin-10) (CK-10) (Keratin-10) (K10)		
17	cytokeratin 9 [Homo sapiens]		
18	K1C10_HUMAN Keratin, type I cytoskeletal 10 (Cytokeratin-10) (CK-10) (Keratin-10) (K10)		
19	B Chain B, Porcine E-Trypsin (E.C.3.4.21.4)		
20	keratin-10		
21	PREDICTED: similar to keratin 9 [Pan troglodytes]		
22	elongation factor-1alpha [Sodreana sodreana]		



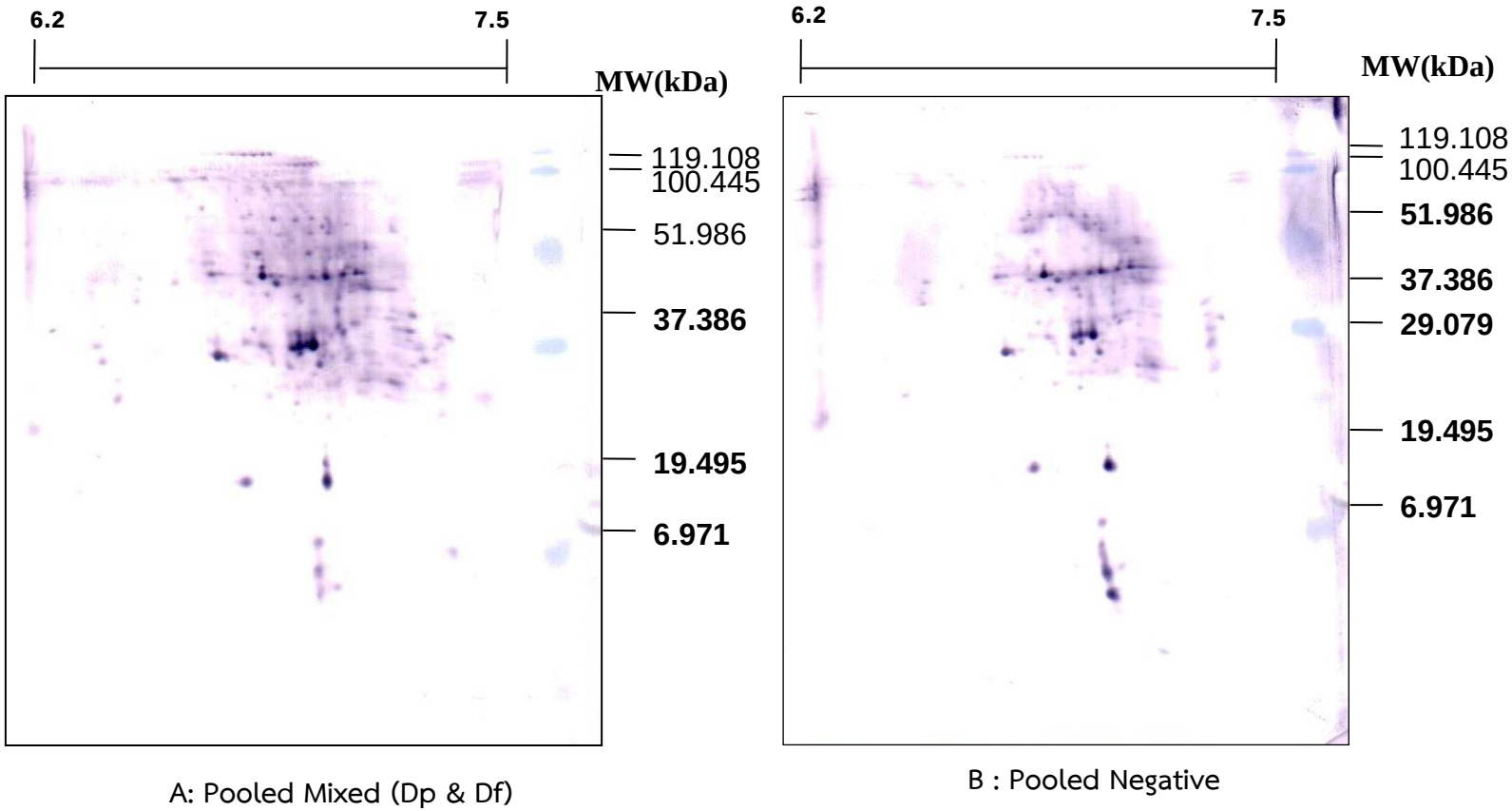
รูปที่ 3.15 2-DE maps of proteins from crude extract of *Dermatophacoides farinae* stained by silver



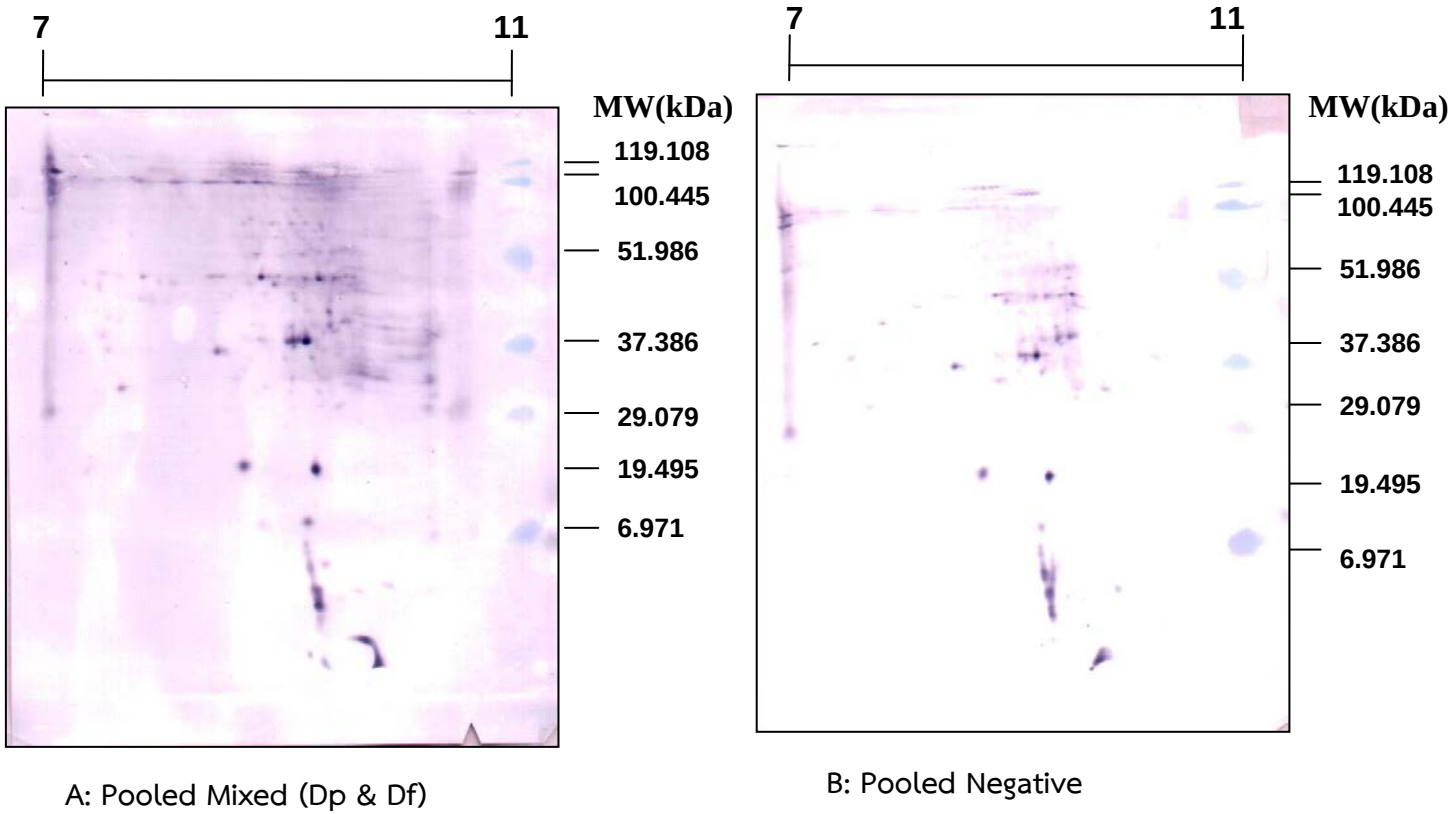
รูปที่ 3.16 Two dimensional immunoblot analysis from crude extract of *D. farinae* at the pH 3-10, NL; the blot probed with the allergic serum pool (A) compare with non-allergic serum pool (B).



รูปที่ 3.17 Two dimensional immunoblot analysis from crude extract of *D. farinae* at the pH 5.0-6.5 the blot probed with the allergic serum pool (*A*) compare with non-allergic serum pool (*B*).



รูปที่ 3.18 Two dimensional immunoblot analysis from crude extract of *D. farinae* at the pH 6.2-7.5 the blot probed with the allergic serum pool (*A*) compare with non-allergic serum pool (*B*).



รูปที่ 3.19 Two dimensional immunoblot analysis from crude extract of *D. farinae* at the pH 7.0-11 the blot probed with the allergic serum pool (A) compare with non-allergic serum pool (B).