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Determination of changes in bovine plasma and milk proteins during naturally occurring *Escherichia coli* mastitis by comparative proteomic analysis

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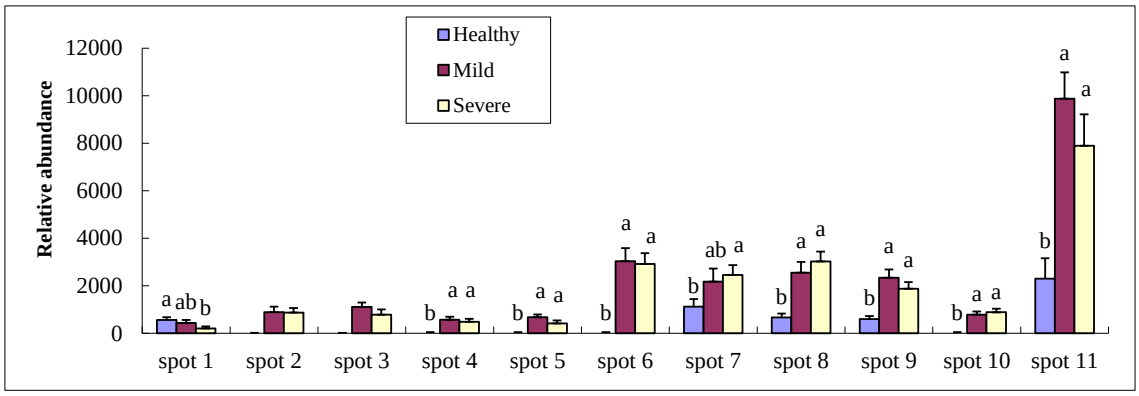

Fig. S1. Densitometric values of protein spots detected in plasma from healthy cows, mild and severe *E. coli* mastitic cows. Different letter mean significant differences at the 5% level.

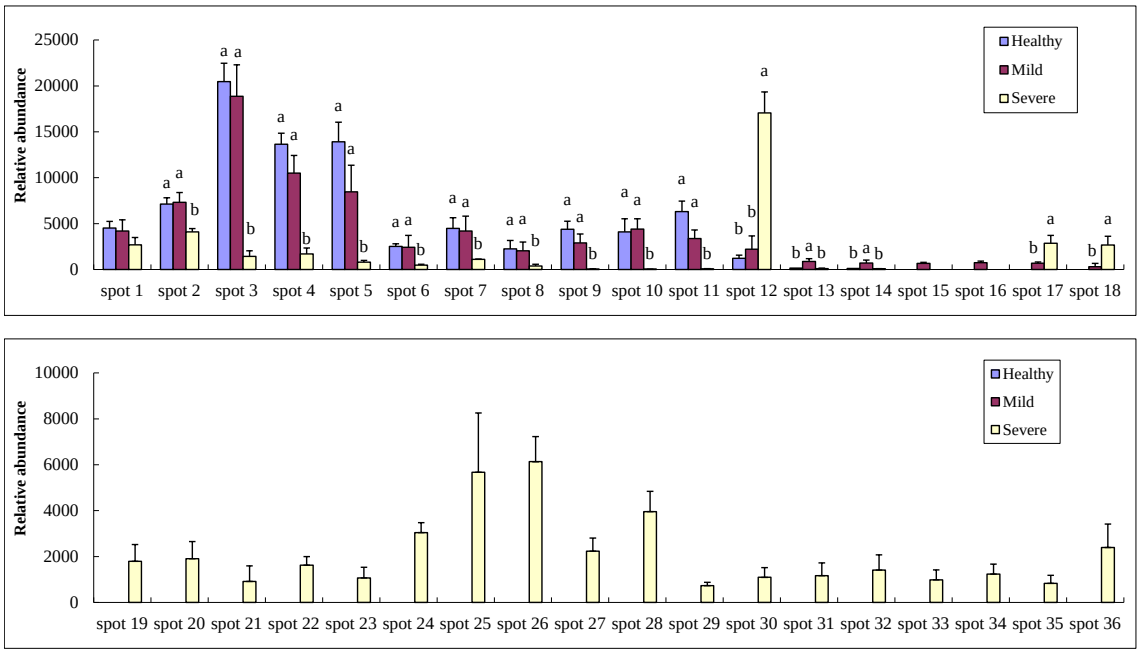

Fig. S2. Densitometric values of protein spots detected in milk among healthy cows, mild and severe *E. coli* mastitic cows. Different letter mean significant differences at the 5% level.

Table S1. Information of the identified proteins from healthy cows, and cows with mild and severe *E. coli* mastitis

Spot	Accession No.& Protein name	Sequence	MH+	Charge	XC	DeltaCn	Sp	Ions
1	gi : 27806789| transthyretin							
		-.GSPAANVGVK.-	900.0148	2	2.7034	0.4145	323.1	16|18
		-.SLGISPFHEFAEVVFTANDSGPR.-	2478.7009	3	3.7535	0.2906	855.5	25|88
		-.AADETWEPFASGK.-	1409.4821	2	2.2357	0.2429	306.7	12|24
		-.HYTIAALLSPYSYSTTALVSSPK.-	2471.7898	2	2.5848	0.4633	830.8	20|44
2	gi : 94966763| haptoglobin							
		-.APEIANSHVEYSVR.-	1572.7041	2	3.5748	0.4591	1505.9	20|26
		-.IENGYVEYLVR.-	1355.5207	2	2.8516	0.4451	574.9	13|20
		-.YQCDKYYK.-	1168.2738	2	2.2257	0.2416	619.5	11|14
		-.LHAGNGVYTFNNK.-	1435.5691	2	2.3769	0.4633	650.4	15|24
		-.LPECEAVCGKPK.-	1388.5790	2	2.6108	0.4218	554.9	15|22
		-.TCGDGVYTFNSK.-	1349.4216	2	2.8556	0.4482	1052.9	17|22
		-.YQCKPYYTLR.-	1392.5776	2	2.3182	0.2332	564.4	12|18
3	gi : 94966763| haptoglobin							
		-.APEIANSHVEYSVR.-	1572.7041	2	3.5748	0.4591	1505.9	20|26
		-.IENGYVEYLVR.-	1355.5207	2	2.8516	0.4451	574.9	13|20
		-.YQCKPYYTLR.-	1392.5776	2	2.3182	0.2332	564.4	12|18
		-.LHAGNGVYTFNNK.-	1435.5691	2	2.3769	0.4633	650.4	15|24
		-.LPECEAVCGKPK.-	1388.5790	2	2.6108	0.4218	554.9	15|22
		-.TCGDGVYTFNSK.-	1349.4216	2	2.8556	0.4482	1052.9	17|22

	-.YQCDKYYK.-	1168.2738	2	2.2257	0.2416	619.5	11|14
4	gi : 94966811| alpha-1 acid glycoprotein						
	-.DACGPLEKQHEEER.-	1698.7666	2	2.5363	0.3640	475.6	16|26
	-.EFLDVIK.-	864.0208	1	1.9915	0.1678	227.6	9|12
	-.KDACGPLEK.-	1018.1399	2	2.3059	0.1205	453.7	11|16
	-.KEFLDVIK.-	992.1937	2	2.4793	0.1090	910.9	13|14
	-.VESDREHFVDLLLSK.-	1787.9946	3	4.5651	0.5722	1280	29|56
	-.WFYIGSAFR.-	1147.3092	2	2.7874	0.4718	935.5	15|16
	-.AIQAAFFYLEPR.-	1426.6437	2	2.2693	0.3174	599.3	13|22
	-.EHFVDLLLSK.-	1201.3966	2	2.3214	0.4481	460.2	13|18
	-.EYQTIEDK.-	1026.0791	1	2.2027	0.3418	300.1	11|14
	-.HAEDKLITR.-	1083.2233	2	2.8099	0.4210	952	14|16
	-.TFM*LAASWNGTK.-	1343.5334	2	2.6749	0.5329	1100.1	15|22
5	gi : 94966811| alpha-1 acid glycoprotein						
	-.DACGPLEKQHEEER.-	1698.7666	2	2.5363	0.3640	475.6	16|26
	-.EFLDVIK.-	864.0208	1	1.9915	0.1678	227.6	9|12
	-.KDACGPLEK.-	1018.1399	2	2.3059	0.1205	453.7	11|16
	-.KEFLDVIK.-	992.1937	2	2.4793	0.1090	910.9	13|14
	-.VESDREHFVDLLLSK.-	1787.9946	3	4.5651	0.5722	1280	29|56
	-.WFYIGSAFR.-	1147.3092	2	2.7874	0.4718	935.5	15|16
	-.AIQAAFFYLEPR.-	1426.6437	2	2.2693	0.3174	599.3	13|22
	-.EHFVDLLLSK.-	1201.3966	2	2.3214	0.4481	460.2	13|18
	-.EYQTIEDK.-	1026.0791	1	2.2027	0.3418	300.1	11|14
	-.HAEDKLITR.-	1083.2233	2	2.8099	0.4210	952	14|16
	-.TFM*LAASWNGTK.-	1343.5334	2	2.6749	0.5329	1100.1	15|22
6	gi : 94966811| alpha-1 acid glycoprotein						

	-.CIGIQESEIIYTDEKK.-	1927.1357	3	3.7696	0.3468	698	28|60
	-.DACGPLEKQHEEER.-	1698.7666	2	2.9605	0.3359	607.9	16|26
	-.KDACGPLEK.-	1018.1399	2	2.6033	0.2505	427.8	11|16
	-.NVGVSFYADK.-	1100.2060	2	2.5847	0.4554	280.9	10|18
	-.KEFLDVIK.-	992.1937	2	2.4092	0.2026	714.1	12|14
	-.LITREYQTIEDK.-	1509.6862	2	2.2899	0.2610	425	12|22
	-.NVGVSFYADKPEVTQEQKK.-	2168.3920	3	3.9620	0.5125	774.3	31|72
	-.VESDREHFVDLLLSK.-	1787.9946	3	3.9200	0.4627	1000.4	27|56
	-.WFYIGSAFR.-	1147.3092	2	2.6436	0.4870	734.5	13|16
	-.AIQAAFFYLEPR.-	1426.6437	2	2.2631	0.3290	875.7	14|22
	-.EHFVDLLLSK.-	1201.3966	1	1.9589	0.1034	195.9	7|18
	-.EYQTIEDK.-	1026.0791	1	2.4914	0.3785	278.8	11|14
	-.HAEDKLITR.-	1083.2233	2	2.8019	0.4699	940	14|16
7	gi : 94966811| alpha-1 acid glycoprotein						
	-.DACGPLEKQHEEER.-	1698.7666	2	2.9605	0.3359	607.9	16|26
	-.EFLDVIK.-	864.0208	1	1.9117	0.1400	254.3	8|12
	-.KDACGPLEK.-	1018.1399	2	2.8846	0.1839	567	12|16
	-.LITREYQTIEDK.-	1509.6862	2	2.2899	0.2610	425	12|22
	-.NVGVSFYADKPEVTQEQKK.-	2168.3920	3	3.9620	0.5125	774.3	31|72
	-.VESDREHFVDLLLSK.-	1787.9946	3	3.9200	0.4627	1000.4	27|56
	-.WFYIGSAFR.-	1147.3092	2	2.6436	0.4870	734.5	13|16
	-.AIQAAFFYLEPR.-	1426.6437	2	2.2631	0.3290	875.7	14|22
	-.NVGVSFYADK.-	1100.2060	2	2.5847	0.4554	280.9	10|18
	-.EHFVDLLLSK.-	1201.3966	1	1.9589	0.1034	195.9	7|18
	-.EYQTIEDK.-	1026.0791	1	2.4914	0.3785	278.8	11|14
	-.HAEDKLITR.-	1083.2233	2	2.8019	0.4699	940	14|16

8	gi : 94966811| alpha-1 acid glycoprotein						
	-.CIGIQESEIIYTDEKK.-	1927.1357	3	3.9635	0.3499	564	27|60
	-.DACGPLEKQHEEER.-	1698.7666	2	3.1558	0.1936	568	17|26
	-.NVGVSFYADK.-	1100.2060	2	2.5847	0.4554	280.9	10|18
	-.EFLDVIK.-	864.0208	1	1.9117	0.1400	254.3	8|12
	-.KDACGPLEK.-	1018.1399	2	2.8846	0.1839	567	12|16
	-.LITREYQTIEDK.-	1509.6862	2	2.2899	0.2610	425	12|22
	-.NVGVSFYADKPEVTQEQKK.-	2168.3920	2	4.8145	0.5589	984.7	19|36
	-.VESDREHFVDLLLSK.-	1787.9946	3	4.1993	0.4721	1214.1	26|56
	-.WFYIGSAFR.-	1147.3092	2	2.6436	0.4870	734.5	13|16
	-.AIQAAFFYLEPR.-	1426.6437	2	2.5948	0.3951	767.8	14|22
	-.EHFVDLLLSK.-	1201.3966	2	2.3165	0.4433	778.4	14|18
	-.EYQTIEDK.-	1026.0791	1	2.4914	0.3785	278.8	11|14
	-.HAEDKLITR.-	1083.2233	2	2.5763	0.4046	968.4	14|16
9	gi : 94966811| alpha-1 acid glycoprotein						
	-.CIGIQESEIIYTDEKK.-	1927.1357	3	3.9635	0.3499	564	27|60
	-.DACGPLEKQHEEER.-	1698.7666	2	3.1558	0.1936	568	17|26
	-.KEFLDVIK.-	992.1937	2	2.6473	0.1711	946	13|14
	-.KDACGPLEK.-	1018.1399	2	2.3293	0.2848	572.3	11|16
	-.LITREYQTIEDK.-	1509.6862	2	2.2899	0.2610	425	12|22
	-.NVGVSFYADKPEVTQEQKK.-	2168.3920	2	4.8145	0.5589	984.7	19|36
	-.VESDREHFVDLLLSK.-	1787.9946	2	2.2590	0.3341	589.8	14|28
	-.WFYIGSAFR.-	1147.3092	2	3.0663	0.4944	1043.7	15|16
	-.AIQAAFFYLEPR.-	1426.6437	2	2.9110	0.4097	1372	18|22
	-.NVGVSFYADK.-	1100.2060	2	2.5847	0.4554	280.9	10|18
	-.EHFVDLLLSK.-	1201.3966	2	2.5808	0.4480	989.9	15|18

	-.EYQTIEDK.-	1026.0791	1	2.4914	0.3785	278.8	11|14
	-.HAEDKLITR.-	1083.2233	2	2.4044	0.2240	782.5	13|16
10	gi : 94966811| alpha-1 acid glycoprotein						
	-.CIGIQESEIIYTDEKK.-	1927.1357	2	2.2801	0.2450	551	14|30
	-.NVGVSFYADK.-	1100.2060	2	2.5847	0.4554	280.9	10|18
	-.DACGPLEKQHEEER.-	1698.7666	2	3.4515	0.3899	733.6	18|26
	-.KDACGPLEK.-	1018.1399	2	2.3541	0.2947	623.6	12|16
	-.EFLDVIK.-	864.0208	1	2.2274	0.1635	303.9	10|12
	-.LITREYQTIEDK.-	1509.6862	2	2.2899	0.2610	425	12|22
	-.NVGVSFYADKPEVTQEQKK.-	2168.3920	2	2.6633	0.3848	327.8	13|36
	-.VESDREHFVDLLLSK.-	1787.9946	2	2.9440	0.4059	726.8	16|28
	-.WFYIGSAFR.-	1147.3092	2	3.2872	0.5363	1187.2	16|16
	-.AIQAAFFYLEPR.-	1426.6437	2	2.9110	0.4097	1372	18|22
	-.EHFVDLLLSK.-	1201.3966	2	2.3165	0.4433	778.4	14|18
	-.EYQTIEDK.-	1026.0791	1	2.4914	0.3785	278.8	11|14
	-.HAEDKLITR.-	1083.2233	2	2.4044	0.2240	782.5	13|16
11	gi : 92096965| Immunoglobulin light chain, lambda gene cluster						
	-.GSYSCEVTHEGSTVTK.-	1742.8162	2	3.1667	0.4420	884.1	17|30
	-.SKGSYSCEVTHEGSTVTK.-	1958.0667	2	5.0260	0.5995	1400.5	22|34
	-.SPPSVTLFPPSTEELNGNK.-	2015.2096	2	4.5681	0.5093	547.3	20|36
	-.TVKPSECS.-	907.9823	2	2.2637	0.3864	321.5	9|14
	-.YAASSYLSLTSSDWK.-	1679.8082	2	2.8409	0.3428	774	15|28
	-.VSITCSGSSSNIGR.-	1425.5212	2	2.7970	0.3569	605.8	14|26