Supplementary Materials

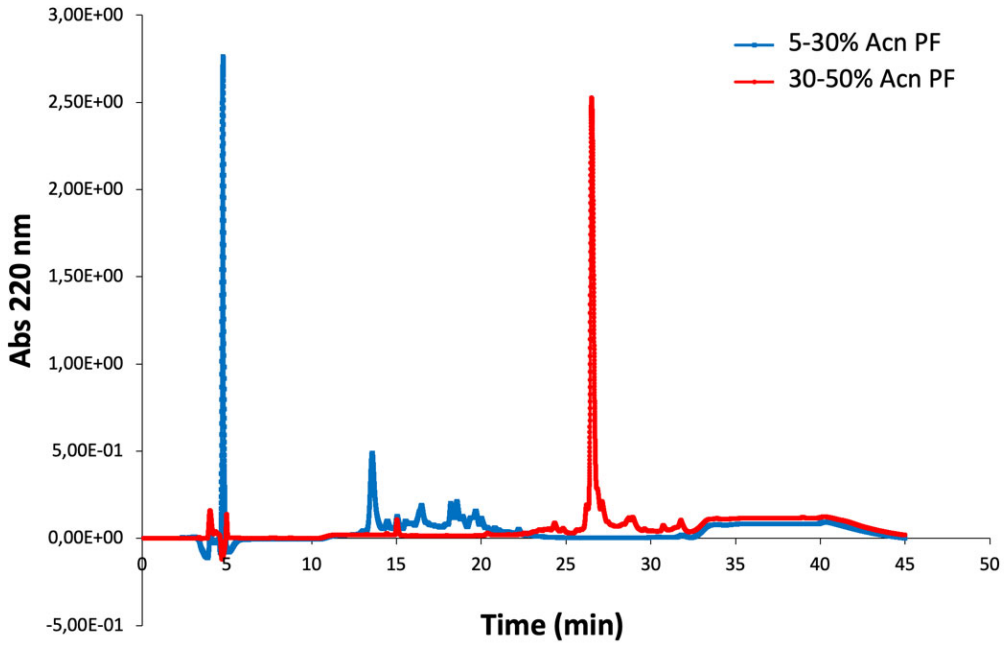


Figure S1: Chromatogram at 220 nm of the purified 5-30% and 30-50% ACN PFs with RP-HPLC.

Table S1. Peptide sequences isolated from the 5-30% ACN PF.

Sequence	Number of AA	m/z [Da]	MH+ [Da]	Derived from
YLEQLLR	7	467,77173	934,53618	α-S1 casein
FFVAPFPE	8	477,24203	953,47679	α-S1 casein
VLNENLLR	8	485,78772	970,56816	α-S1 casein
LNENLLRF	8	509,78784	1018,56841	α-S1 casein
APFPEVFGK	9	496,26614	991,52501	α-S1 casein
GQVWEESLK	9	538,27539	1075,54350	Lactoperoxidase
TEDELQDKI	9	545,76678	1090,52629	β casein
LGYLEQLLR	9	552,82422	1104,64116	α-S1 casein
VLNENLLRF	9	559,32220	1117,63713	α-S1 casein
TKVIPYVRY	9	380,22626	1138,66422	α-S2 casein
KVIPYVRYL	9	575,85339	1150,69951	α-S2 casein
FVAPFPEVFG	10	555,28723	1109,56719	α-S1 casein
APFPEVFGKE	10	560,78741	1120,56755	α-S1 casein
HQGLPQEVLN	10	567,79895	1134,59062	α-S1 casein
YQEPVLGPVR	10	579,32025	1157,63323	β casein
DRITGGKDFR	10	388,87573	1164,61264	Lipoprotein lipase
PLSILKEKHL	10	589,36908	1177,73088	Glycosylation-dependent cell adhesion molecule 1 (GLCM1)
FPEVFGKEKV	10	590,32385	1179,64043	α-S1 casein
ILWESASLLR	10	594,34363	1187,67998	Complement C3
AVPYPQRDmP	10	595,28778	1189,56828	β casein
IVLNPWDQVK	10	606,34290	1211,67851	α-S2 casein
QEVLNENLLR	10	614,33820	1227,66911	α-S1 casein
GYLEQLLRLK	10	411,58377	1232,73676	α-S2 casein
LTEEEKNRLN	10	623,32599	1245,64470	α-S2 casein
TKLTEEEKNR	10	416,55768	1247,65848	α-S2 casein

TKVIPYVRYL	10	626,37726	1251,74724	α-S2 casein
YLGYLEQLLR	10	634,35657	1267,70586	α-S1 casein
YDDRNEPVLR	10	426,21420	1276,62806	Mucin 15
AAPAGAAIQSR	11	506,78018	1012,55309	Polymeric immunoglobulin receptor
YSGSSKALVST	11	550,28632	1099,56536	Polymeric immunoglobulin receptor
LPAPELGPRQA	11	574,82483	1148,64238	Protein canopy homolog 3
QPTNQVVANAK	11	585,31738	1169,62749	Perilipin
LSQSKVLPVPQ	11	598,35522	1195,70317	β casein
SSSEESITRIN	11	611,79974	1222,59221	β casein
LLYQEPVLGPV	11	614,35345	1227,69963	β casein
FVAPFPEVFGK	11	619,33472	1237,66216	α-S1 casein
SKVKEAmAPKH	11	414,56058	1241,66718	β casein
APFPEVFGKEK	11	624,83472	1248,66216	α-S1 casein
QPQSQNPKLPL	11	625,34900	1249,69072	GLCM1
LEIVPNSAEER	11	628,82794	1256,64861	α-S1 casein
LYQEPVLGPVR	11	635,86176	1270,71623	β casein
LPQEVLNENLL	11	641,35706	1281,70683	α-S1 casein
LPLSILKEKHL	11	323,45923	1290,81508	GLCM1
LPIIQKLEPQI	11	646,40247	1291,79766	Perilipin
VDmESTEVFTK	11	651,30084	1301,59441	β casein
HIQKEDVPSER	11	669,34375	1337,68022	α-S1 casein
TKLTEEEKNRL	11	454,25302	1360,74451	α-S2 casein

IQKEDVPSERY	11	682,34705	1363,68682	α-S1 casein
KLTEEEKNRLN	11	687,37299	1373,73870	α-S2 casein
QEVLNENLLRF	11	687,87323	1374,73918	α-S1 casein
KTKLTEEEKNR	11	459,25595	1375,75330	α-S2 casein
TEEEKNRLNFL	11	696,86035	1392,71343	α-S2 casein
YSGSSKALVSTL	12	606,82758	1212,64787	Polymeric immunoglobulin receptor
GVSKVKEAmAPK	12	420,90417	1260,69797	β casein
EPVLGPVRGPFP	12	632,85626	1264,70525	β casein
YQEPVLGPVRGP	12	656,35730	1311,70732	β casein
ALLDPSFFAKES	12	662,84357	1324,67986	Polymeric immunoglobulin receptor
VPPFLQPEVmGV	12	664,85046	1328,69365	β casein
GLPQEVLNENLL	12	669,86737	1338,72746	α-S1 casein
SLVYPFPGPIHN	12	670,85394	1340,70061	β casein
APFPEVFGKEKV	12	449,91498	1347,73038	α-S1 casein
VAPFPEVFGKEK	12	674,36920	1347,73113	α-S1 casein
LPIIQKLEPQIA	12	681,92206	1362,83684	Perilipin
HQGLPQEVLNEN	12	689,34235	1377,67742	α-S1 casein
TVDmESTEVFTK	12	701,82416	1402,64104	α-S2 casein
VDmESTEVFTKK	12	477,23459	1429,68921	α-S2 casein

ILNKPEDETHLE	12	479,91208	1437,72168	GLCM1
LPQEVLNENLLR	12	719,40698	1437,80669	α-S1 casein
NGQVWEESLKRL	12	486,92834	1458,77048	Lactoperoxidase
TKLTEEEKNRLN	12	737,89697	1474,78667	α-S2 casein
KEmPFPKYPVEP	12	739,37433	1477,74138	β casein
HIQKEDVPSERY	12	500,91959	1500,74421	α-S1 casein
AGEIQNKALLDPS	13	678,36249	1355,71770	Polymeric immunoglobulin receptor
EPVLGPVRGPFPI	13	689,39789	1377,78850	β casein
VEDHIAEGSVAVR	13	461,24094	1381,70826	Butyrophilin subfamily 1 member A1
PIGSENSEKTTmP	13	703,82788	1406,64849	α-S1 casein
SLSQSKVLPVPQK	13	705,92010	1410,83293	β casein
YVPLGTQYTDAPS	13	706,34100	1411,67473	α-S1 casein
DPARVLDLGPITR	13	474,94067	1422,80747	Glycoprotein 2
ALPIIQKLEPQIA	13	717,44037	1433,87346	perilipin
VLPVPQKAVPYPQ	13	718,42017	1435,83306	β casein
NAVPITPTLNREQ	13	726,89502	1452,78276	α-S2 casein
SSRQPQSQNPKLP	13	489,59573	1466,77265	GLCM1
QGLPQEVLNENLL	13	733,89679	1466,78630	α-S1 casein
SQNPKLPLSILKE	13	489,62393	1466,85724	GLCM1

HQGLPQEVLNENL	13	745,88391	1490,76055	α-S1 casein
GLPQEVLNENLLR	13	747,91913	1494,83098	α-S1 casein
IVPNSAEERLHSm	13	749,87067	1498,73406	α-S1 casein
AVPYPQRDmPIQA	13	751,37860	1501,74993	β casein
KEPmIGVNQELAY	13	754,37805	1507,74883	α-S1 casein
KYPVEPFTESQSL	13	762,88373	1524,76018	β casein
KTVDmESTEVFTK	13	510,91730	1530,73734	α-S2 casein
FLLYQEPVLGPVR	13	765,93817	1530,86907	β casein
LPQEVLNENLLRF	13	792,94165	1584,87602	α-S1 casein
HIQKEDVPSERYL	13	538,61414	1613,82785	α-S1 casein
TKLTEEEKNRLNF	13	541,28979	1621,85483	α-S2 casein
KEmPFPKYPVEPF	13	812,90881	1624,81035	β casein
EPVLGPVRGPFPII	14	745,94128	1490,87529	β casein
VmGVSKVKEAmAPK	14	377,45618	1506,80288	β casein
NPIGSENSEKTTmP	14	760,84949	1520,69170	α-S1 casein
LSLSQSKVLPVPQK	14	508,64328	1523,91529	β casein
AQPTDASAQFIRNL	14	766,39703	1531,78679	GLCM1
YQEPVLGPVRGPFP	14	778,41705	1555,82683	β casein
ELEELNVPGEIVES	14	778,88818	1556,76909	β casein

SSRQPQSQN PKLPL	14	527,29053	1579,85703	GLCM1
VPQLEIVPNS AEER	14	790,91870	1580,83013	α-S1 casein
APFPEVFGKE KVNE	14	530,94342	1590,81571	α-S1 casein
HQGLPQEVL NENLL	14	802,42596	1603,84465	α-S1 casein
LIVTQTmKGL DIQK	14	535,30847	1603,91086	β-lactoglobulin
IGSENSEKTT mPLW	14	804,88409	1608,76091	α-S1 casein
QGLPQEVLNE NLLR	14	811,94788	1622,88848	α-S1 casein
TAIRNGQVW EESLK	14	544,29053	1630,85703	Lactoperoxidase
FFVAPFPEVF GKEK	14	821,43835	1641,86943	α-S1 casein
GLPQEVLNEN LLRF	14	821,45172	1641,89617	α-S1 casein
YQGPIVLNP WDQVK	14	828,94171	1656,87615	α-S2 casein
KTVDmESTEV FTKK	14	553,61554	1658,83207	α-S2 casein
HIQKEDVPSE RYLG	14	557,62158	1670,85019	α-S1 casein
EGQEQEGEE mAEYR	14	850,84021	1700,67314	Butyrophilin subfamily 1 member A1
TKLTEEEKNRL NFL	14	578,98438	1734,93857	α-S2 casein

Table S2. Peptide sequences isolated from the 30-50% ACN PF.

Sequence	Number of AA	m/z [Da]	MH+ [Da]	Derived from
LPLSILKE	8	456,79205	912,57683	GLCM1
LGYLEQLLR	9	552,82465	1104,64202	α-S1 casein
LGYLEQLLRL	10	609,36664	1217,72600	α-S1 casein
QEVLNENLLR	10	614,33875	1227,67021	α-S1 casein
TKLTEEEKNR	10	416,55792	1247,65921	α-S2 casein
YLGYLEQLLR	10	634,35645	1267,70561	α-S1 casein
FVAPFPEVFGK	11	619,33472	1237,66216	α-S1 casein
FFVAPFPEVFG	11	628,82184	1256,63640	α-S1 casein
LPLSILKEKHL	11	430,94342	1290,81571	GLCM1
HIQKEDVPSER	11	446,56512	1337,68082	α-S1 casein
LGYLEQLLRLK	11	449,27859	1345,82123	α -S1 casein
HLPLPLLQSWm	11	675,86639	1350,72551	β casein
QEVLNENLLRF	11	687,87274	1374,73821	α -S1 casein
YLGYLEQLLRL	11	690,89856	1380,78984	α -S1 casein
LGPVRGPFPIIV	12	632,89288	1264,77849	β casein
ALLDPSFFAKES	12	662,84357	1324,67986	Polymeric immunoglobulin receptor
HQGLPQEVLNEN	12	689,34210	1377,67693	α -S1 casein
FFVAPFPEVFGK	12	692,86969	1384,73210	α -S1 casein
TKLTEEEKNRLN	12	492,26678	1474,78580	α -S2 casein
YLGYLEQLLRLK	12	503,63339	1508,88562	α-S1 casein
GSKASADESLALG	13	603,30414	1205,60100	Fibroblast growth factor-binding protein 1
VLGPVRGPFPIIV	13	682,42743	1363,84758	β casein
VEDHIAEGSVAVR	13	461,24011	1381,70578	Butyrophilin subfamily 1 member A1

VLPVPQKAVP YPQ	13	718,41943	1435,83159	β casein
HQGLPQEVLN ENL	13	745,88391	1490,76055	α -S1 casein
GLPQEVLNENL LR	13	747,91858	1494,82988	α -S1 casein
FFVAPFPEVFG KE	13	757,39093	1513,77458	α -S1 casein
LPQEVLNENLL RF	13	792,94177	1584,87627	α -S1 casein
PVLGPVRGPFP IIV	14	730,95361	1460,89995	β casein
EPVLGPVRGPF PII	14	745,94000	1490,87273	β casein
HQGLPQEVLN ENLL	14	802,42615	1603,84502	α -S1 casein
FFVAPFPEVFG KEK	14	547,96088	1641,86808	α -S1 casein
GLPQEVLNENL LRF	14	821,45282	1641,89836	α -S1 casein
KTVDmESTEVF TKK	14	553,61523	1658,83115	α -S2 casein
HIQKEDVPSER YLG	14	557,62164	1670,85038	α -S1 casein
VPSERYLGYLE QLL	14	840,45483	1679,90239	α -S1 casein
TKLTEEEKNRL NFL	14	578,98450	1734,93894	α -S2 casein
PSERYLGYLEQ LLR	14	868,97028	1736,93328	α -S1 casein