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Client
Example Company
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Anytown, USA 19840

Dear Client:

Results from the electrophoretic analysis of your two samples received 6/11/26 are enclosed. Figure 1 depicts protein band location and numbering for each of the major bands in the samples. Table 1 lists the percent of total protein relative to total stain density per lane for each of the marked bands in Figure 1. Figure 2 is a gel image with Table 2 describing the gel loading scheme. Methods are described below. Also included are peak density profile plots and the dried Coomassie blue-stained gels.

Methods

Samples were weighed and dissolved to a 5 mg/ml protein concentration with sample buffer containing 5.0% sodium dodecyl sulfate (SDS), 10% glycerol, with 50 mM Dithiothreitol. Following buffer addition, the samples were heated in a digital dry bath at 95°C for 5 minutes before loading.

SDS slab gel electrophoresis was carried out according to the method of Laemmli (Laemmli, U.K. *Nature* 227: 680-685, 1970) as described by Burgess-Cassler et. al. (*Clin. Chem.* 35:2297-2304, 1989; second dimension) using a 12% acrylamide slab gel (125mm length X 150mm width X 0.75mm thickness) overlaid with a 25 mm stacking gel. Electrophoresis was performed using 15 mAmp/gel for about 3.5 hrs. at which time the bromophenol blue front had migrated to the end of the slab gel. The gels were stained with Coomassie blue, destained in 10% acetic acid until a clear background was obtained, then dried between cellophane sheets.

The following proteins (Sigma Chemical Co., St. Louis, MO and EMD Millipore, Billerica, MA) were added as molecular weight standards to a well: myosin (220,000), phosphorylase A (94,000), catalase (60,000), actin (43,000), carbonic anhydrase (29,000) and lysozyme (14,000).

The stained gel was digitized over the appropriate optical density range using a calibrated GE Healthcare Image Scanner III. Stain density in individual protein bands as a percentage of total stain per lane was quantified using Phoretix 1D software (version 11.2) with a Windows 10 compatible computer.

Please feel free to call with any questions or comments.

Sincerely,

Sally Scientist
Biochemist

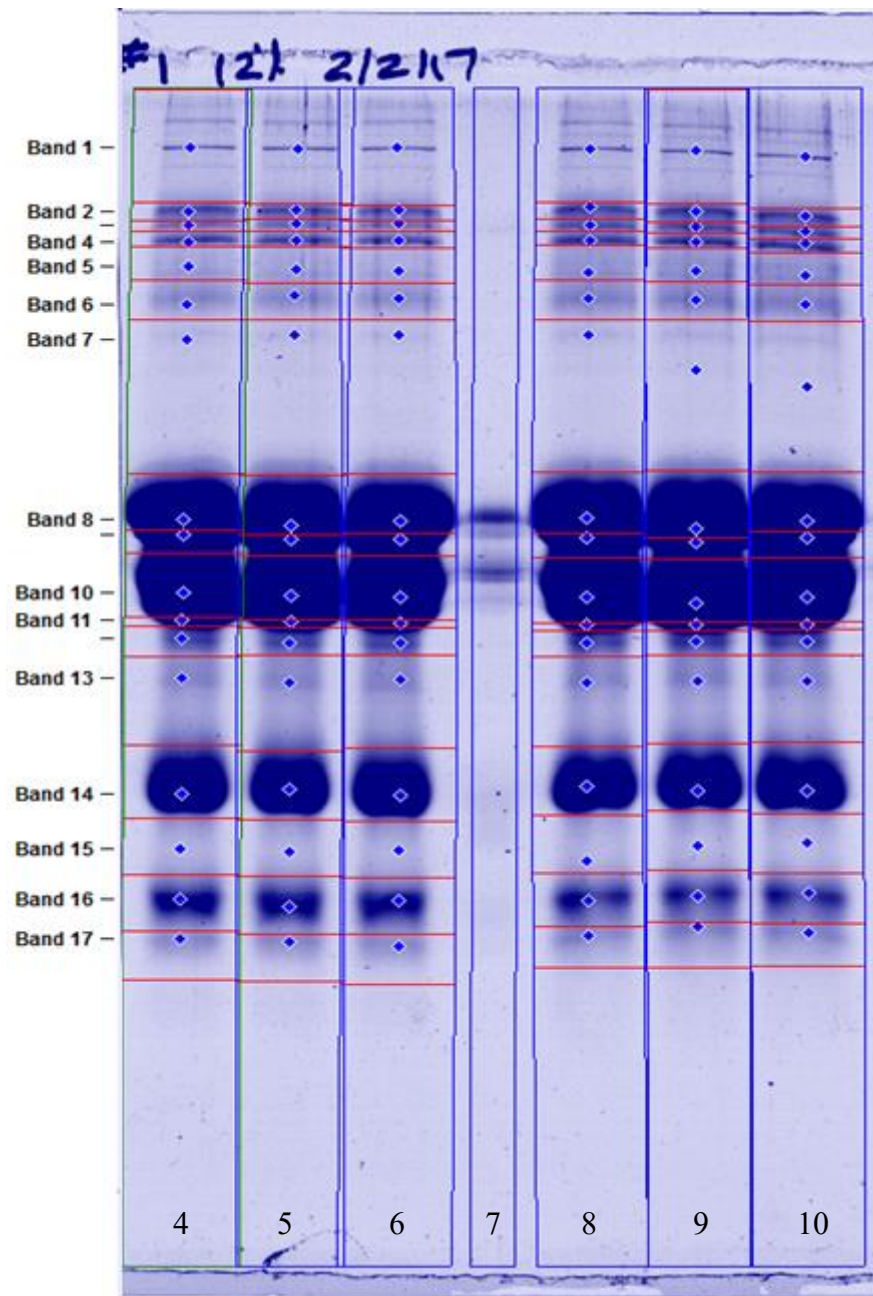


Figure 1. Protein band marking and numbering for gel LE p.106#1. From left to right: lanes 4-6 (NFDM), lanes 8-10 (NFDM + Casein). Each numbered band has a corresponding value in Table 1 representing the percent of total stain per lane.

Protein ID	Band	NFDM		NFDM + Casein	
		Ave.	+/- SD	Ave.	+/- SD
Unknown	1	1.73	0.12	2.34	0.26
Lactoferrin	2	1.13	0.09	1.32	0.06
Unknown	3	0.65	0.06	0.87	0.05
Bovine Serum Albumin	4	1.07	0.02	1.19	0.04
Unknown	5	0.81	0.08	1.26	0.07
IgG Heavy Chain	6	1.15	0.03	1.56	0.08
Unknown	7	1.09	0.15	1.28	0.08
α s1-casein	8	24.05	0.02	23.97	1.51
α s2-casein	9	10.81	0.47	11.08	1.49
β -casein & IgG Light Chain	10	29.99	0.15	29.44	0.47
γ 1-casein	11	2.63	0.07	2.38	0.53
κ -casein	12	1.95	0.13	1.76	0.09
Unknown	13	2.73	0.30	2.50	0.15
β -lactoglobulin	14	14.11	0.35	13.36	0.13
Unknown	15	0.91	0.04	0.94	0.08
α -lactalbumin	16	4.41	0.03	3.65	0.15
Unknown	17	0.70	0.05	1.08	0.08

Table 1. Gel LE p.106 #1. Percent of total protein relative to stain density is provided for each of the bands marked in Figure 1. The values represent stain density in individual protein bands as a percentage of total stain per lane +/- standard deviation (n=3). Average molecular weight is also listed (n=3).

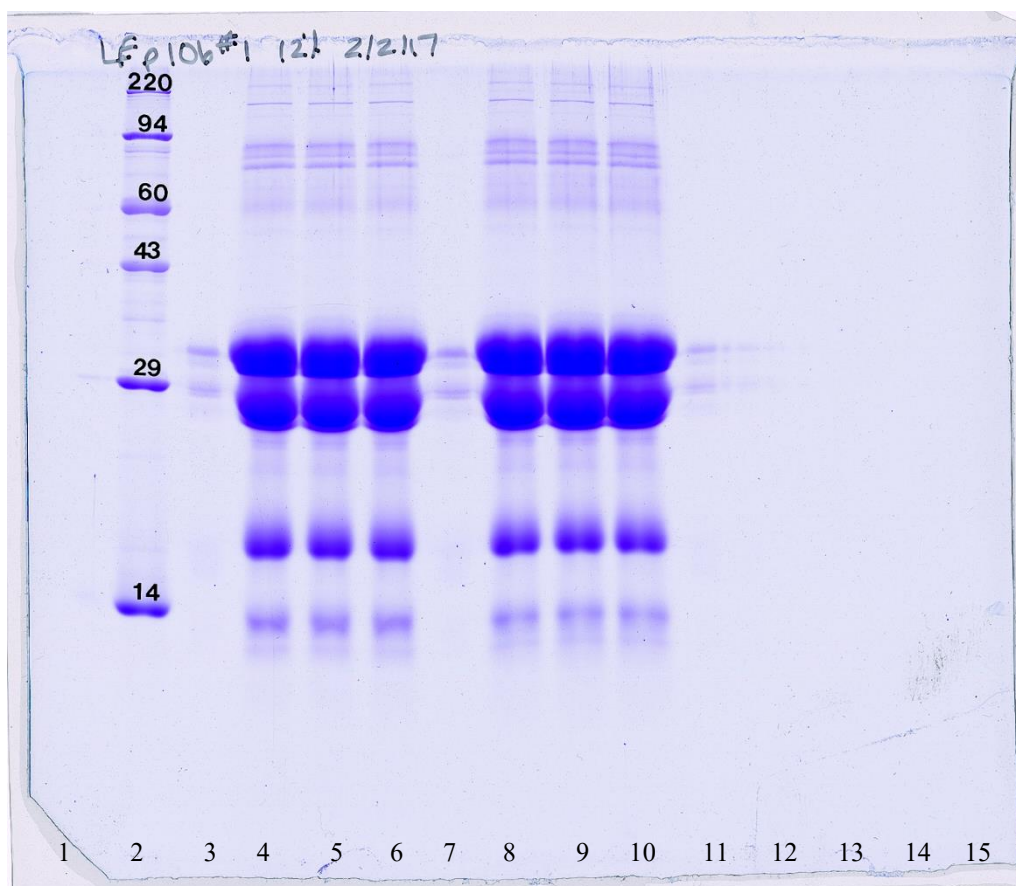
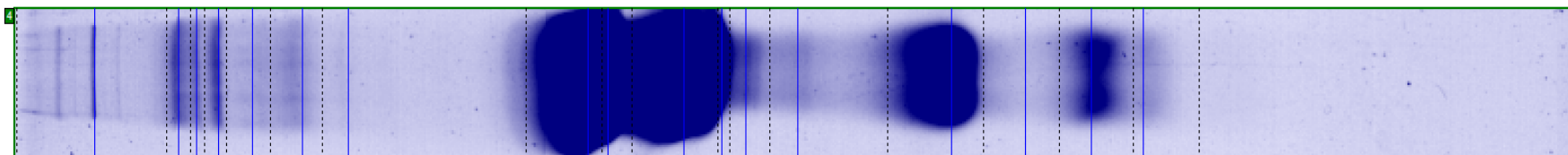
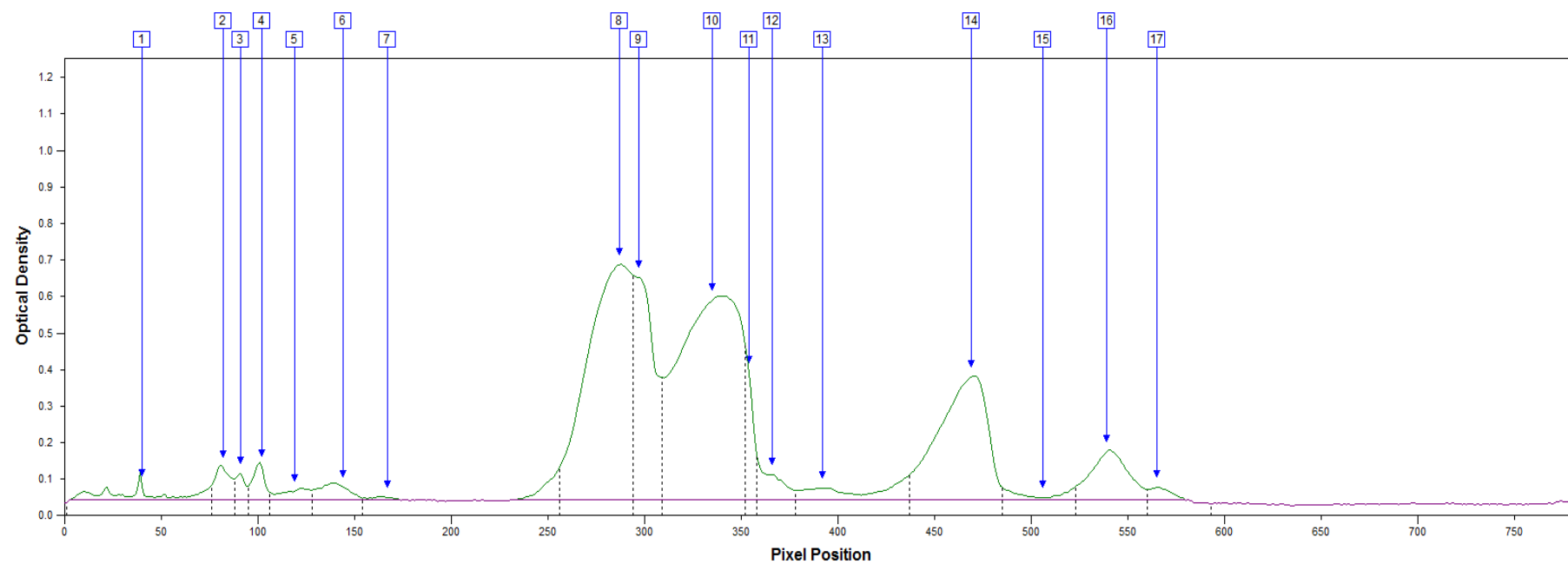


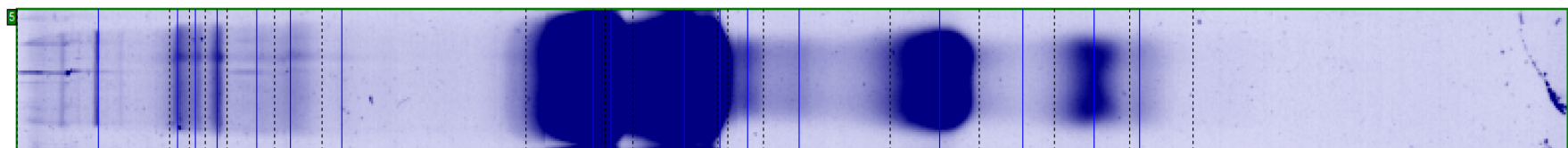
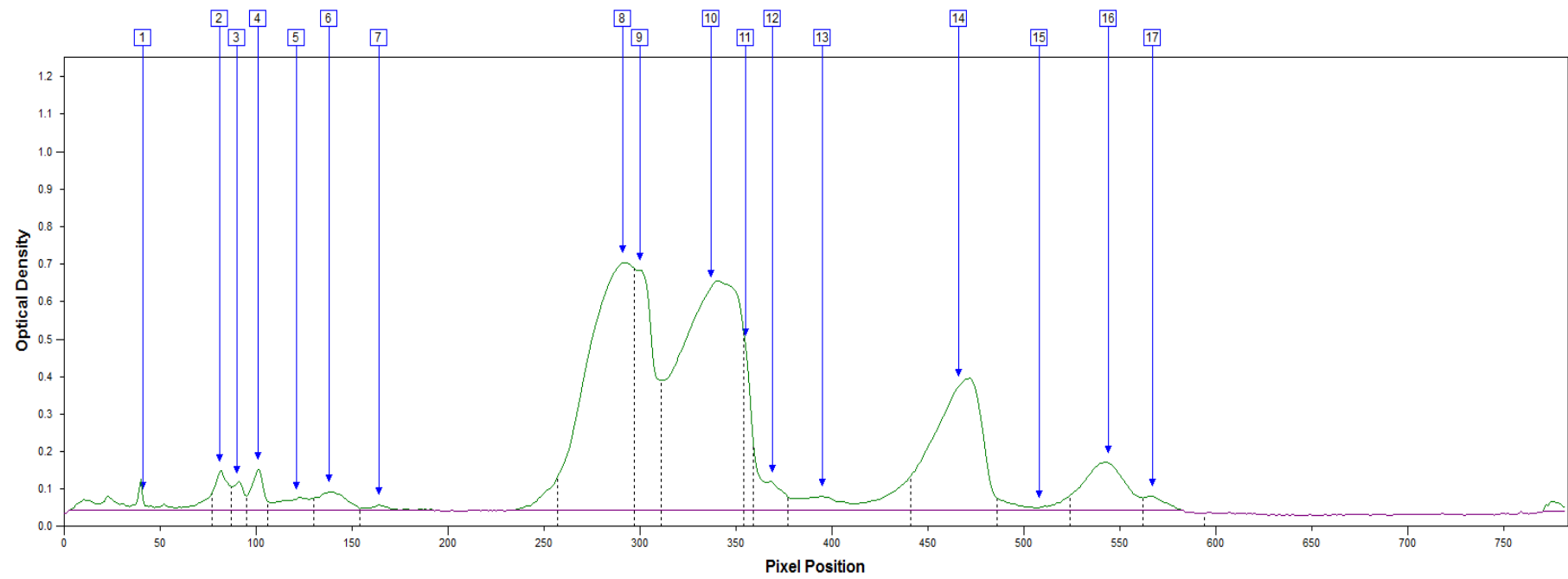
Figure 2. Image of Coomassie blue-stained gel LE p.106 #1.

Lane #	Sample	µg Protein
1	-	
2	Molecular Weight Standards	
3	-	
4	NFDM	35
5	NFDM	35
6	NFDM	35
7	-	
8	NFDM + Casein	35 + 3.5
9	NFDM + Casein	35 + 3.5
10	NFDM + Casein	35 + 3.5
11	-	
12	-	
13	-	
14	-	
15	-	

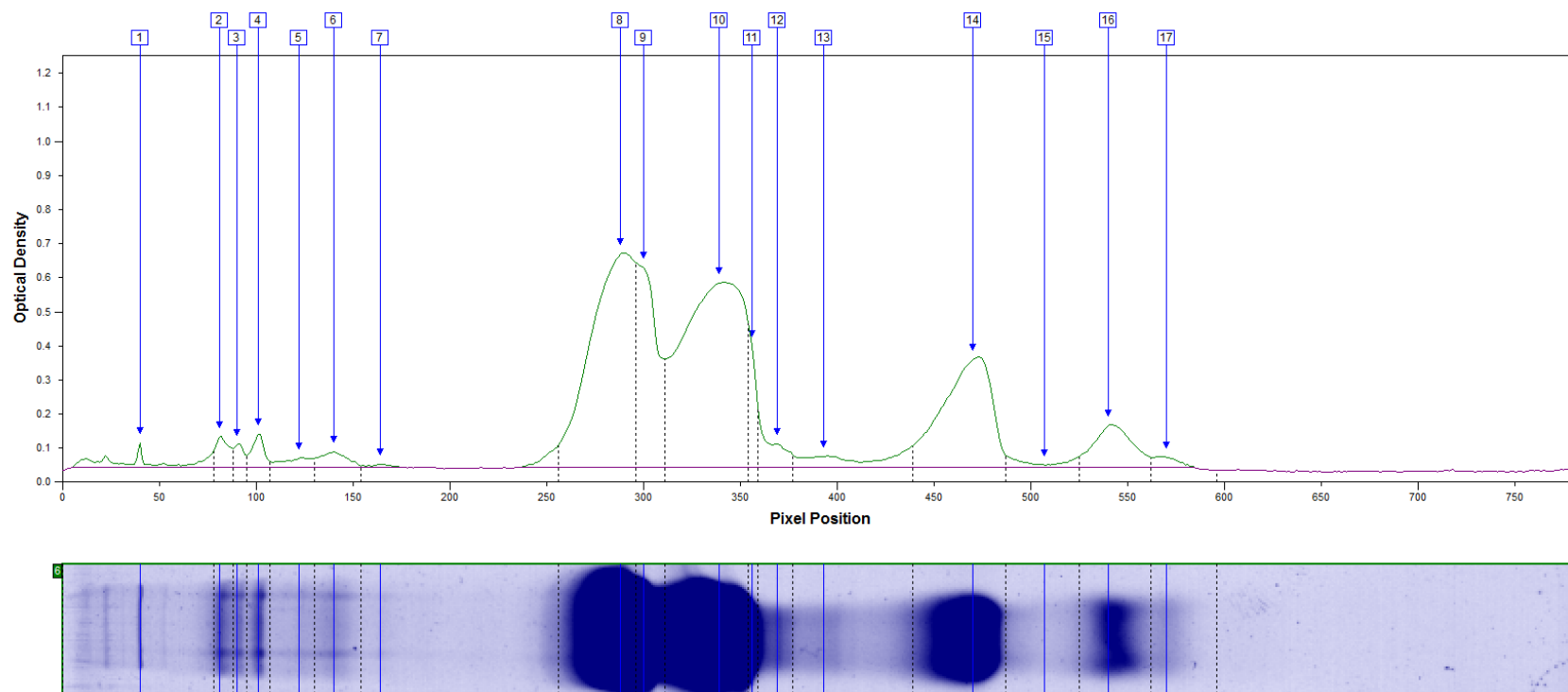
Table 2. Key to loading of gel LE p.106#1.



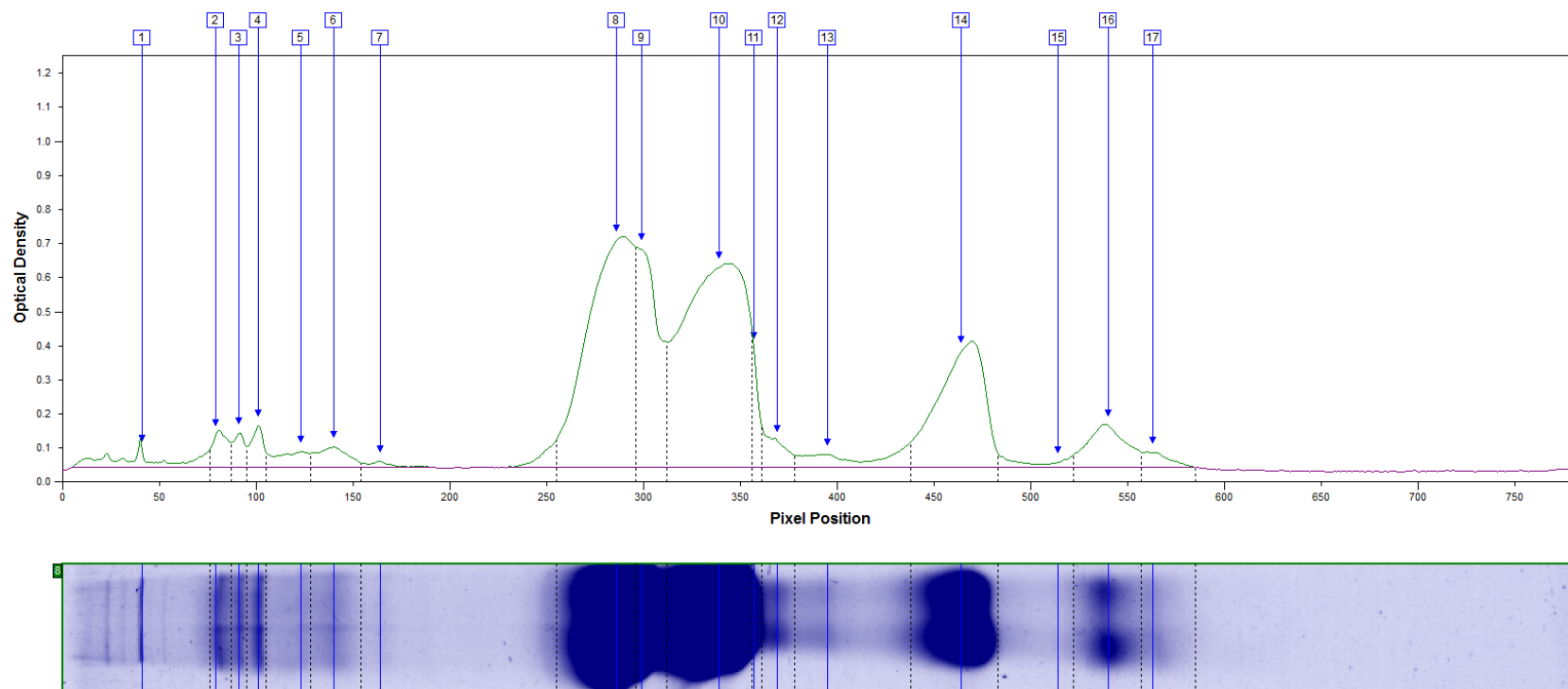
Gel LE p.106 #1 lane 4 Sample: NFDM



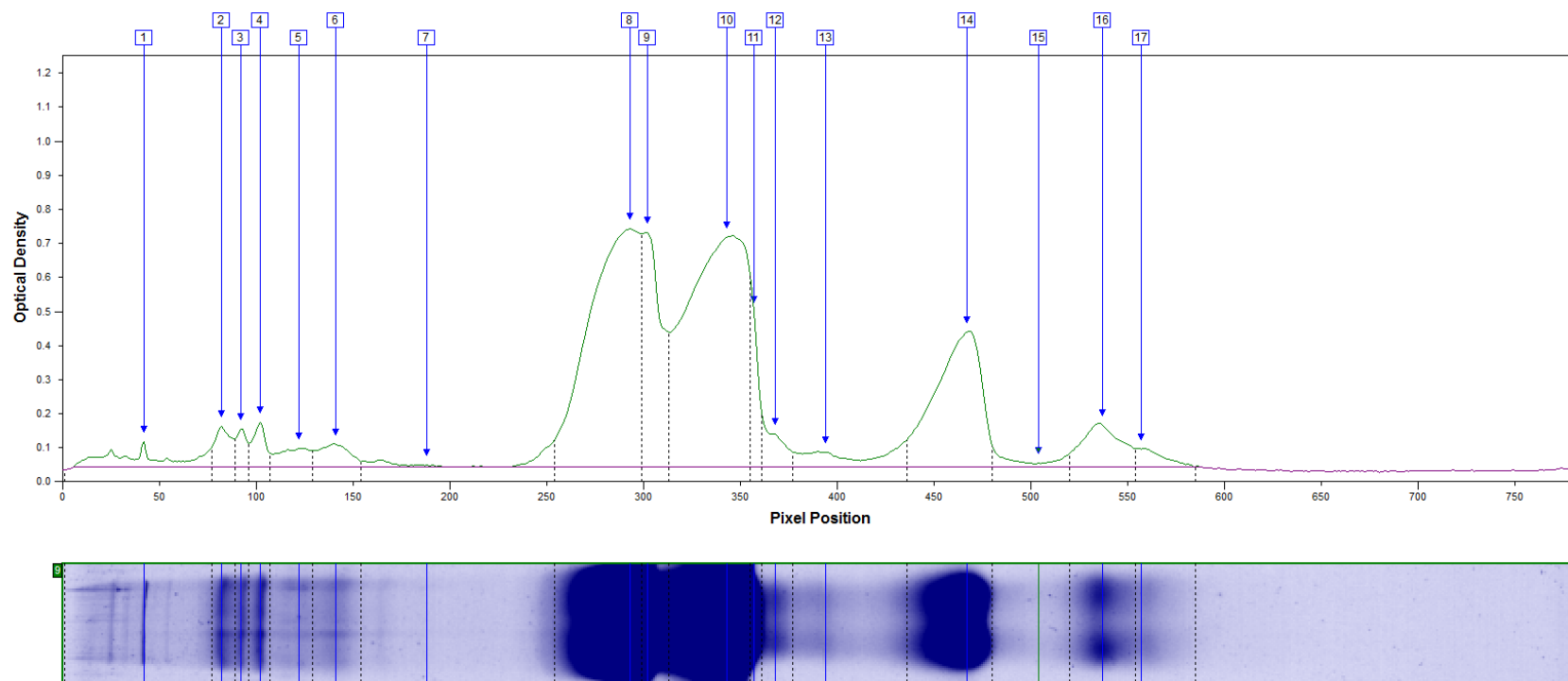
Gel LE p.106 #1 lane 5 Sample: NFDM



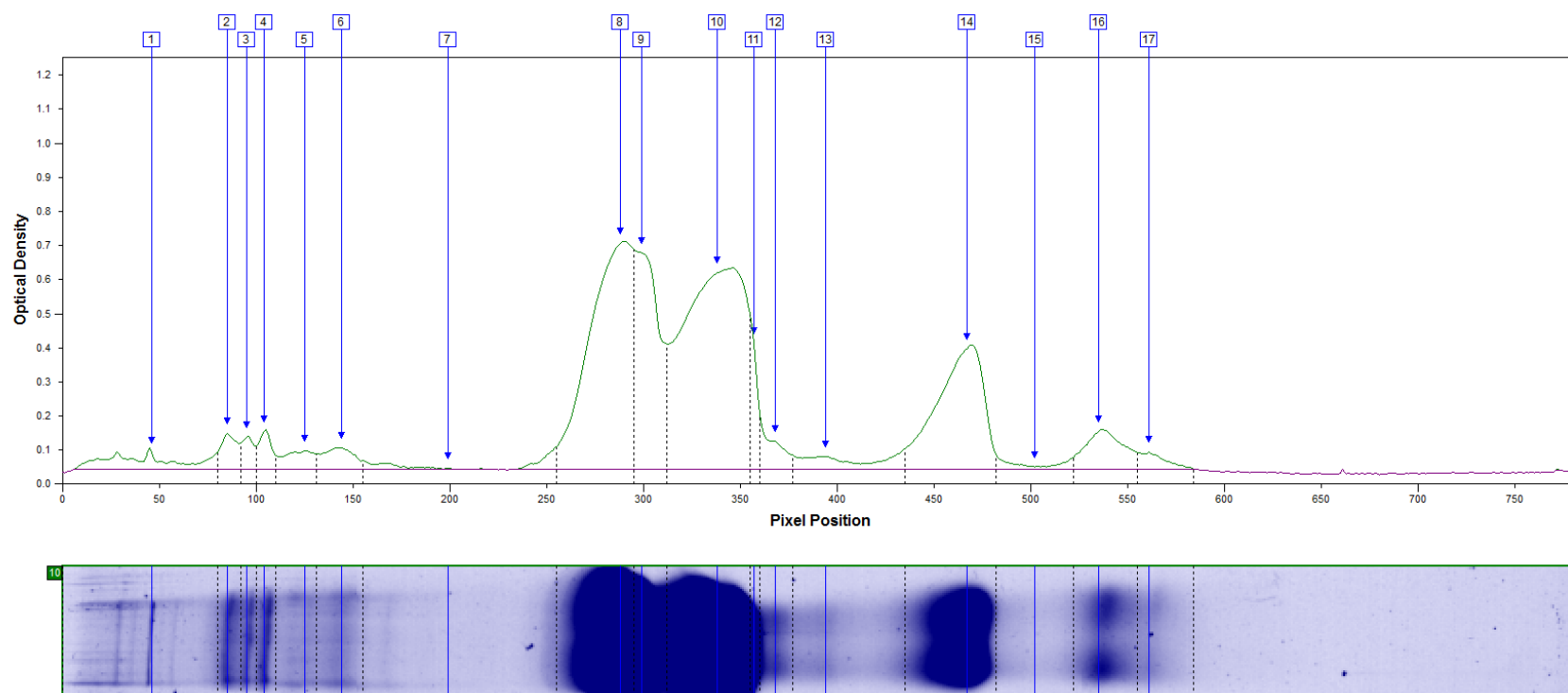
Gel LE p.106 #1 lane 6 Sample: NFDM



Gel LE p.106 #1 lane 8 Sample: NFDM + Casein



Gel LE p.106 #1 lane 9 Sample: NFDM + Casein



Gel LE p.106 #1 lane 10 Sample: NFDM + Casein