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Client
Example Company
100 Main St
Anytown, USA 19840

Dear Client:

Results of the electrophoretic analysis of your two samples received 6/11/26 are presented on the following pages. Figures 1 and 2 depict protein band location, percent of total protein for each of the major bands in the samples relative to total stain density per lane, and molecular weights for the non-reduced 10% acrylamide slab gel MH p.426 #2. Figure 3 shows an image of the gel; Table 1 describes the gel loading scheme and lane identifications. Materials and Methods are described below. Also included is the original dried gel.

Methods

The protein concentrations of the samples were determined by the BCA assay (Smith et. al. *Anal. Biochem.* 150: 76-85, 1985, and Pierce Chemical Co., Rockford, IL).

The samples were diluted with sample buffer containing 5.0% sodium dodecyl sulfate (SDS), 10% glycerol, 50 mM dithiothreitol, and 63 mM tris, pH 6.8. Following buffer addition, the samples were heated in a digital dry bath at 96°C for 10 minutes.

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 10% 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.

Sincerely,

Sally Scientist
Biochemist

Band	Ave. Band %	$\pm$ SD	Mol. Wt. (Da)
1	0.07	0.05	225,155
2	0.52	0.13	207,412
3	0.64	0.12	182,782
4	0.14	0.08	126,071
5	0.07	0.08	93,192
6	87.22	0.50	55,129
7	6.91	0.01	47,971
8	4.26	0.06	43,596
9	0.02	0.03	41,952
10	0.15	0.07	39,145

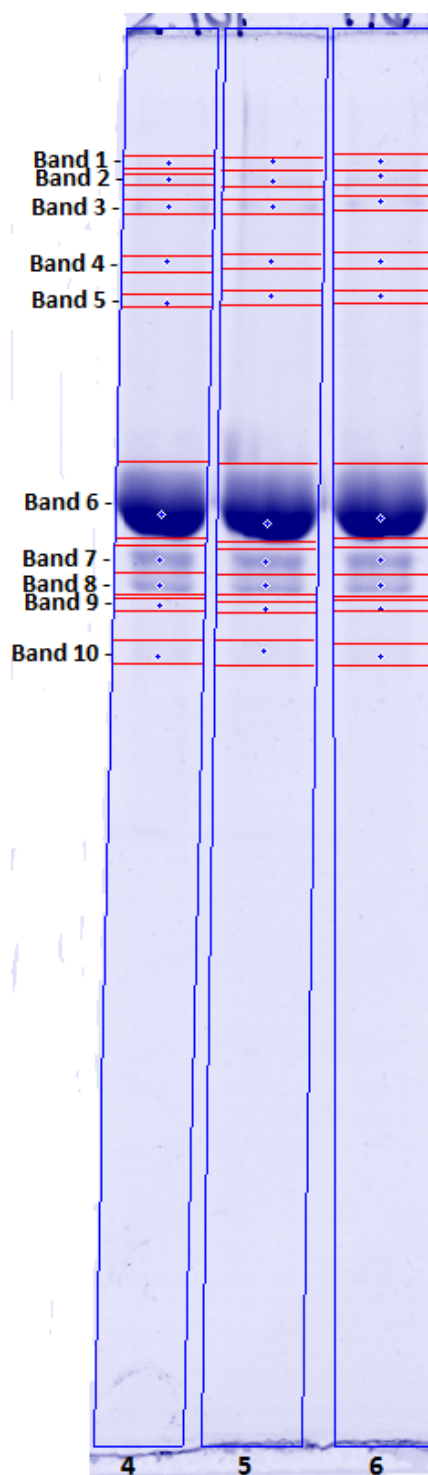


Figure 1. Sample: Product A. Stain density in individual protein bands as a percentage of total stain per lane. The image above shows lanes 4, 5, and 6 from gel MH p.426 #2 with the proteins labeled.

Band	Ave. Band %	$\pm$ SD	Mol. Wt. (Da)
1	0.08	0.02	225,108
2	0.42	0.07	209,216
3	0.50	0.14	185,378
4	0.02	0.02	130,324
5	0.02	0.02	96,270
6	86.12	0.59	55,851
7	6.45	0.12	48,667
8	4.56	0.18	44,720
9	0.05	0.08	42,319
10	0.27	0.18	39,287
11	0.49	0.09	37,822
12	1.03	0.12	36,494

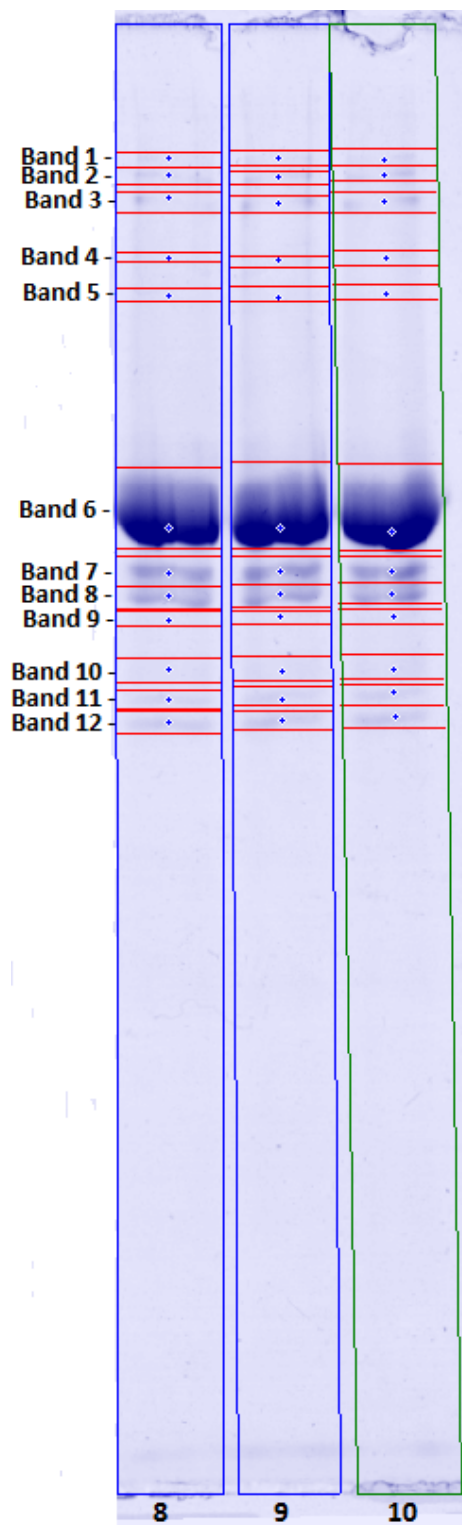


Figure 2. Sample: Product B. Stain density in individual protein bands as a percentage of total stain per lane. The image above shows lanes 8, 9, and 10 from gel MH p.426 #2 with the proteins labeled.

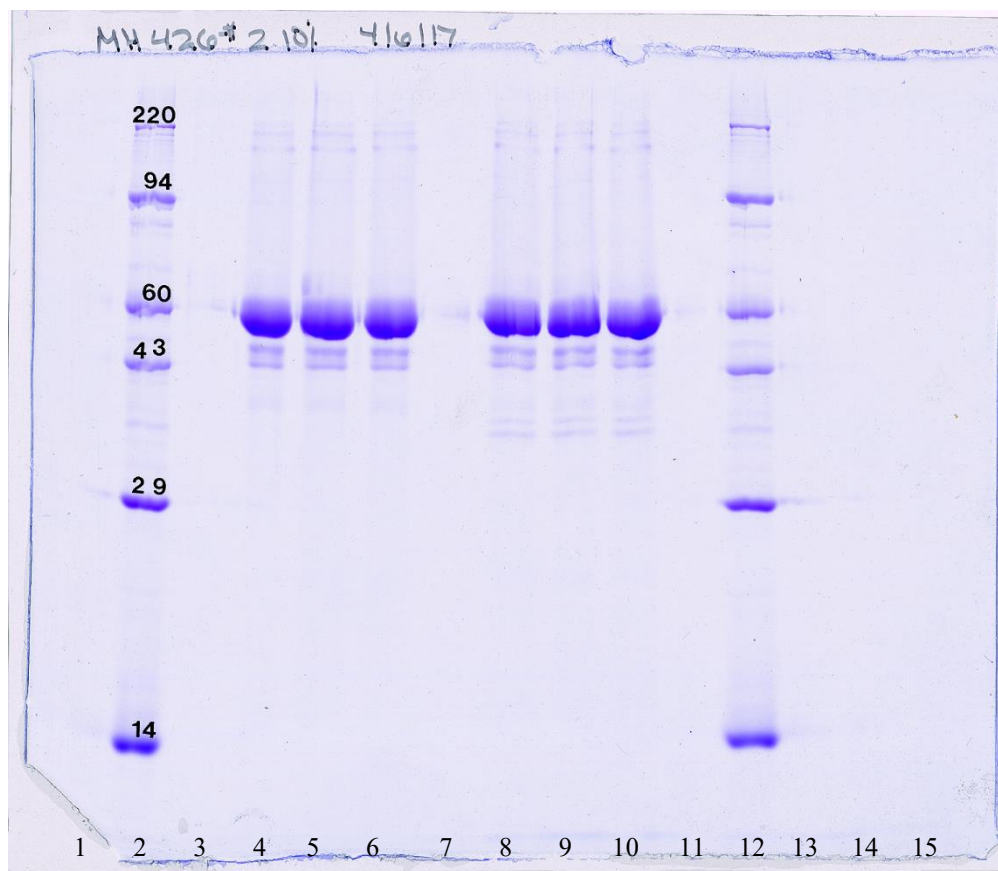
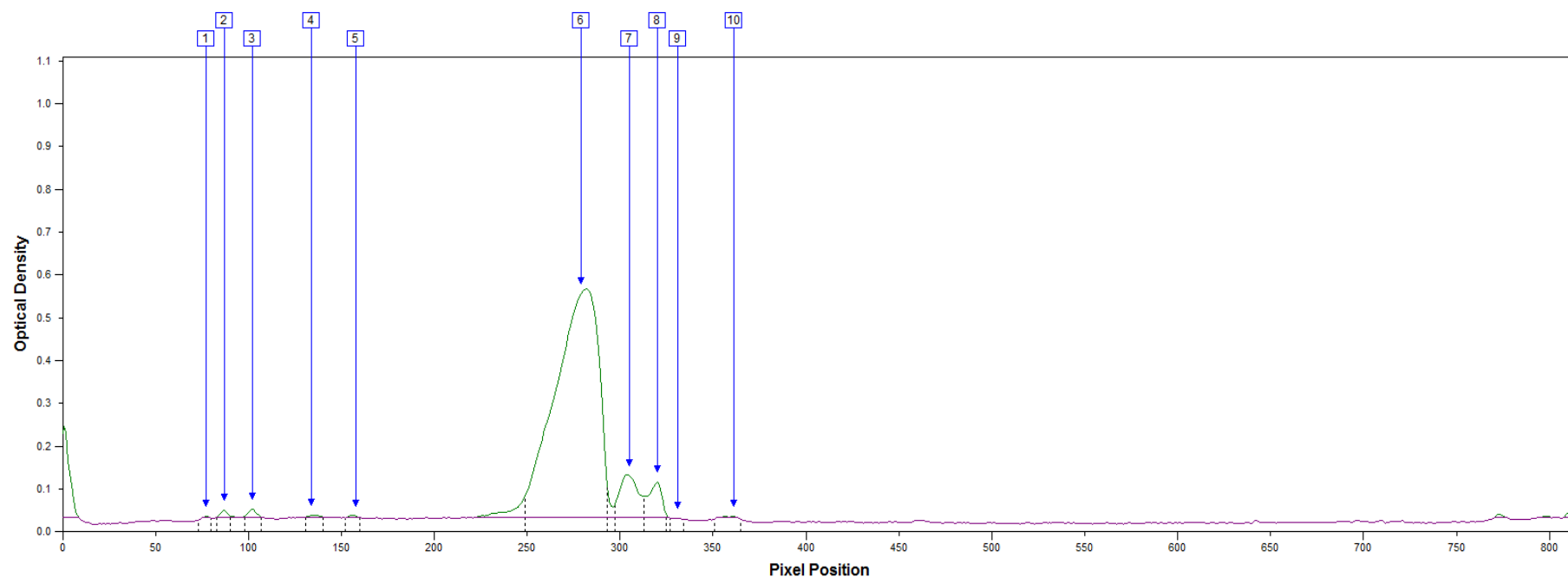


Figure 3. Image of gel MH p.426 #2.

Lane	Sample	µg Protein	µl loaded
1	-	-	-
2	Molecular Weight Standards	-	5
3	SDS Buffer without BME	-	10
4	Product A	5	10
5	Product A	5	10
6	Product A	5	10
7	-	-	-
8	Product B	5 + 0.1	10 +
9	Product B	5 + 0.1	10 +
10	Product B	5 + 0.1	10 +
11	-	-	-
12	-	-	-
13	-	-	-
14	-	-	-
15	-	-	-

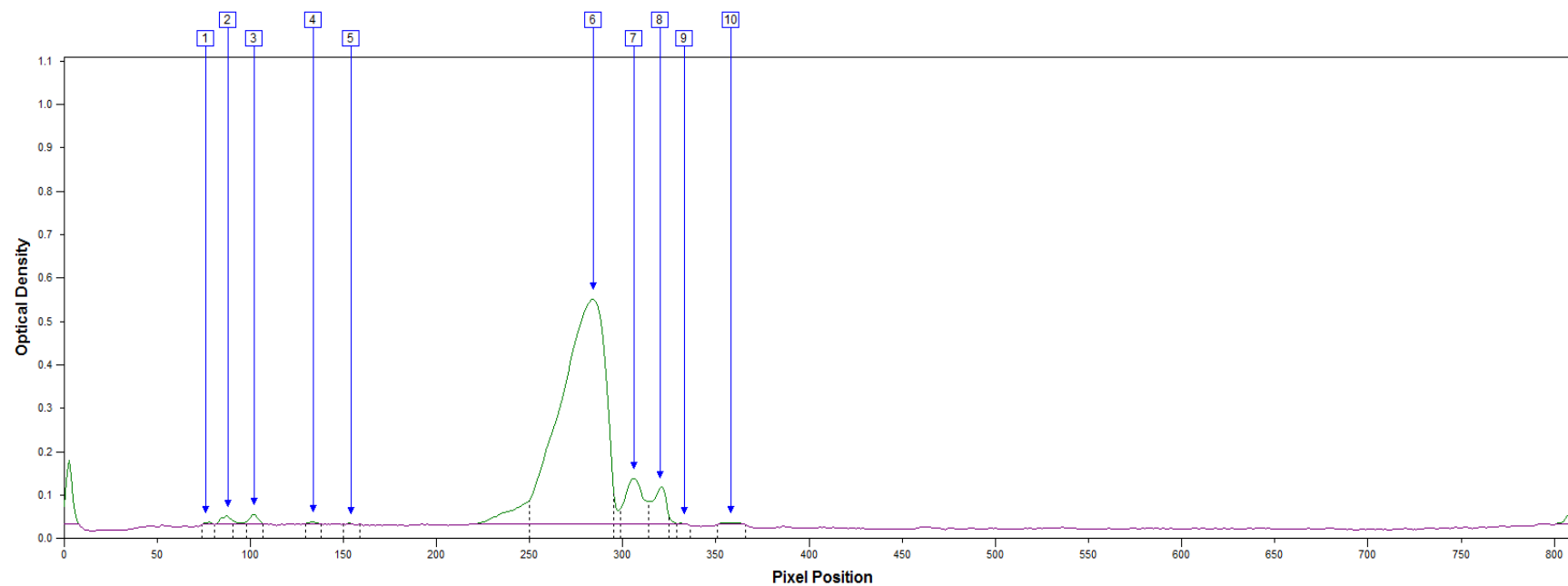
Table 1. Key to Loading gel MH p.426 #2.



Gel MH p.426 #2

Lane 4

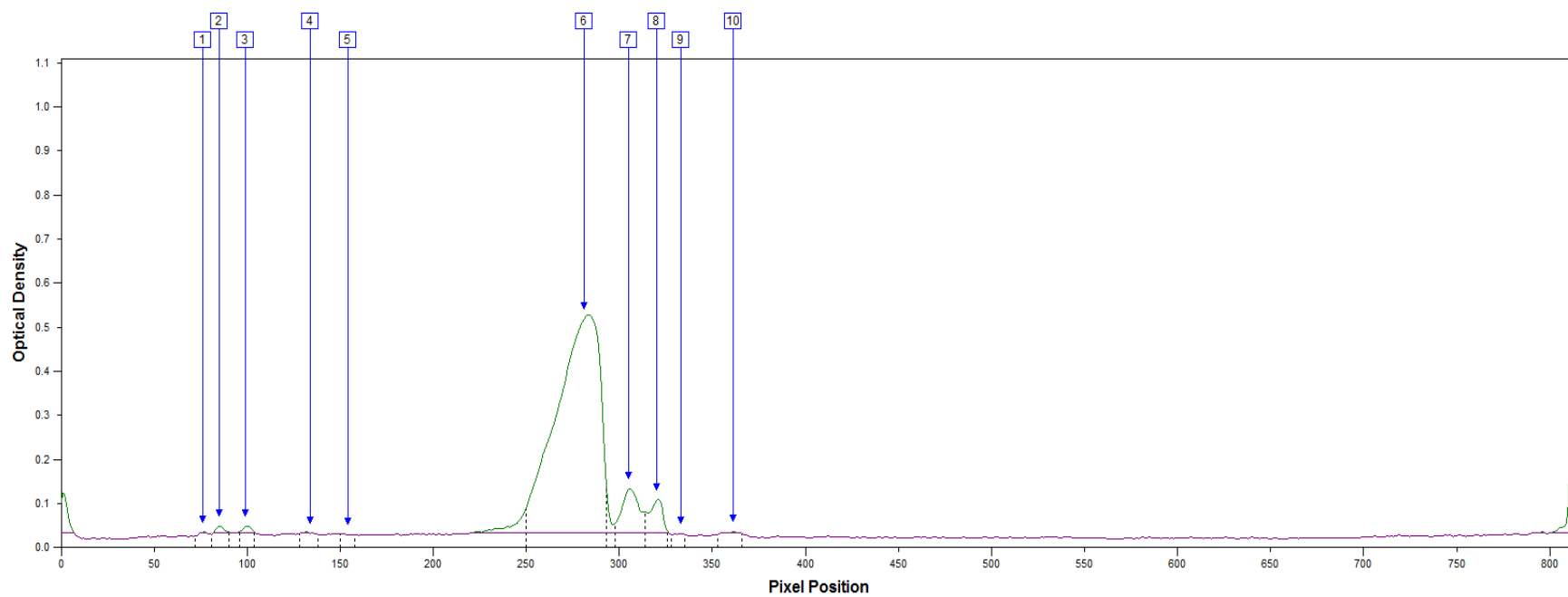
Sample: Product A



Gel MH p.426 #2

Lane 5

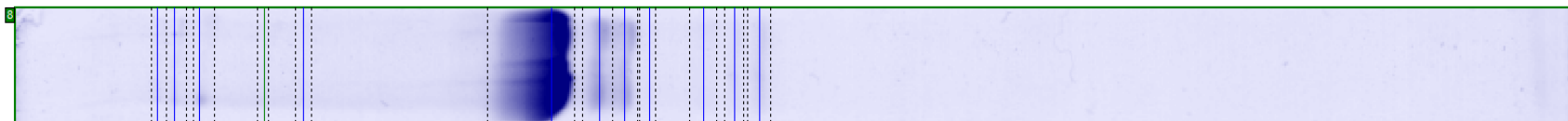
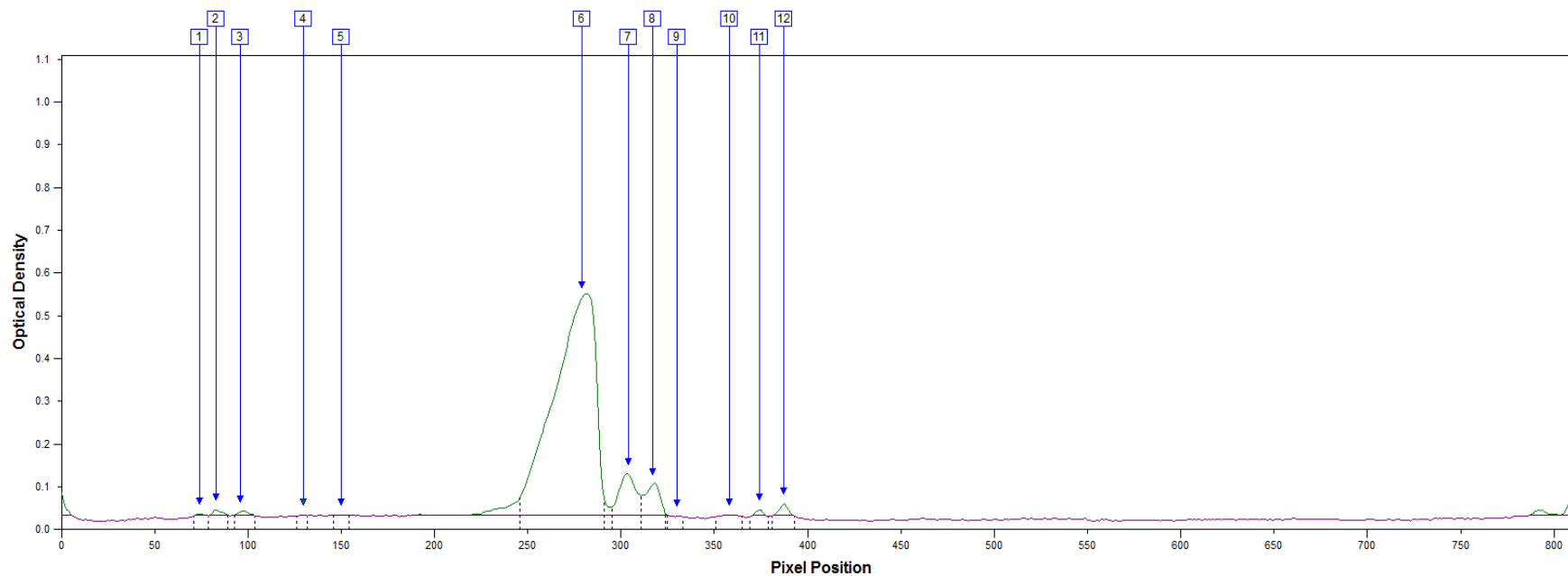
Sample: Product A



Gel MH p.426 #2

Lane 6

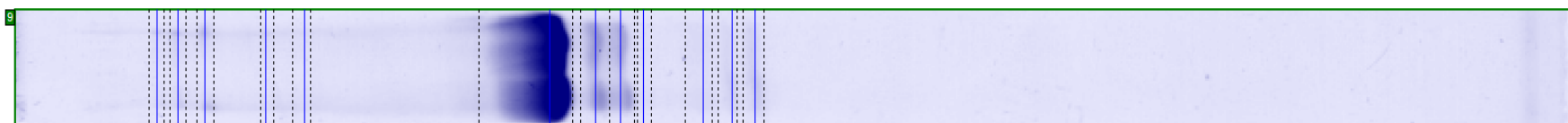
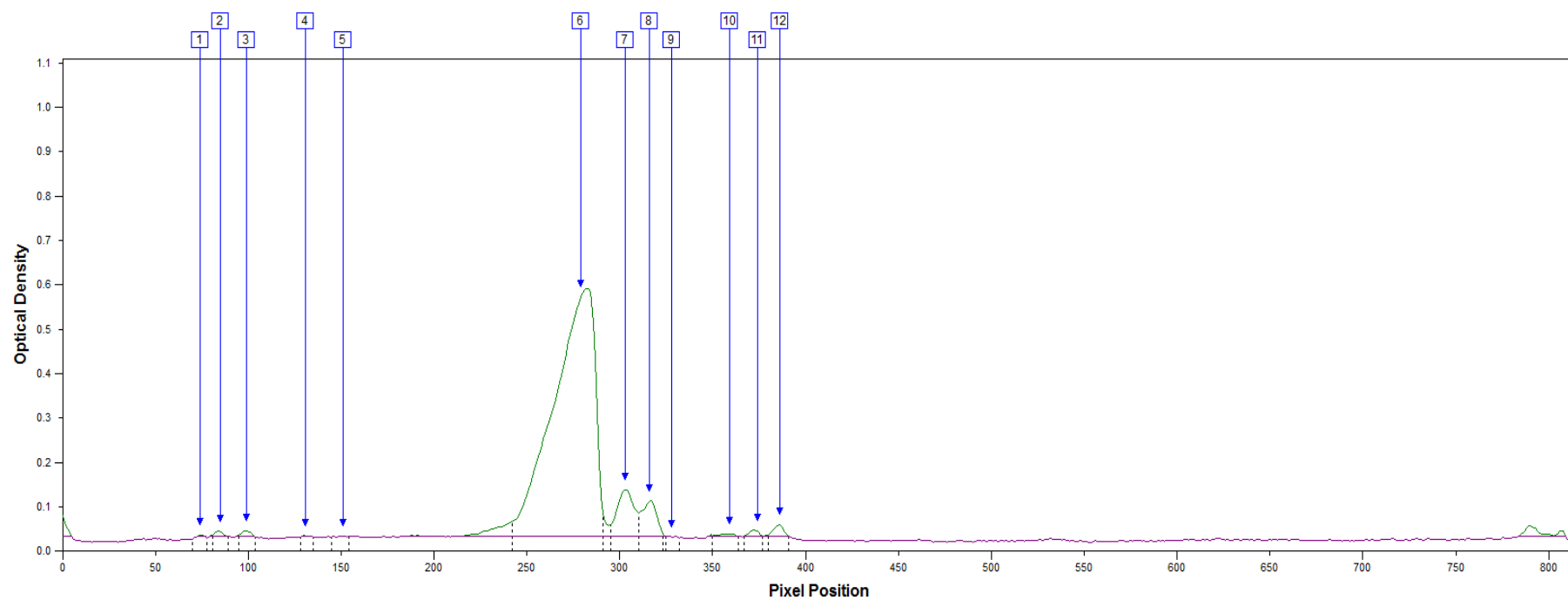
Sample: Product A



Gel MH p.426 #2

Lane 8

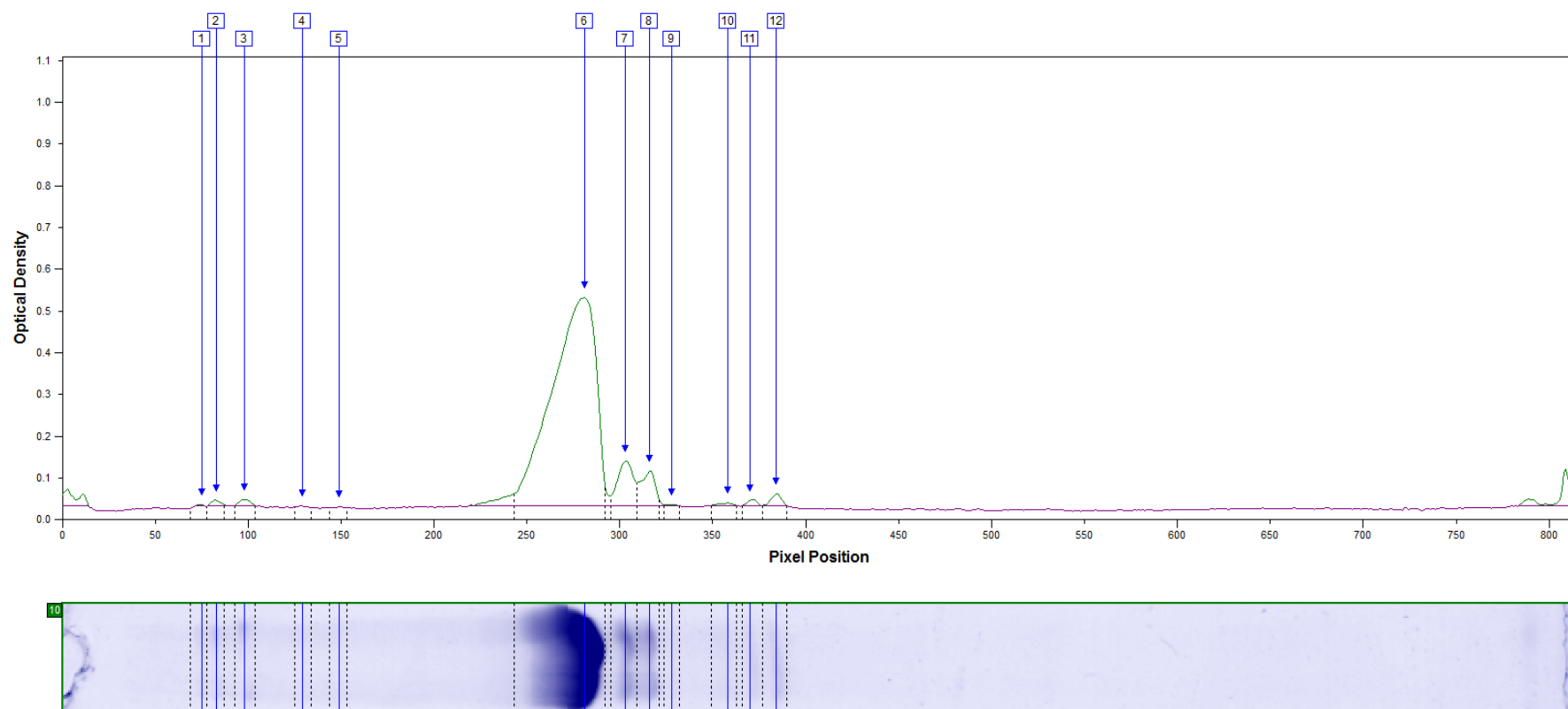
Sample: Product B



Gel MH p.426 #2

Lane 9

Sample: Product B



Gel MH p.426 #2

Lane 10

Sample: Product B