# The Errata list

Figure correction						
		Old	New			
Page	29	Section 2.2.1 - Figure 14	Figure 15			
Page	29	Section 2.2.1 - Figure 15	Table 19 and Table 20			
Page	46	Section 3.1.1 - Figure 32	Figure 34			
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Page	57	Section 3.6 - Figure 25	Figure 27			
Page	57	Section 3.6.1 - Figure 5	Figure 55			
Page	64	Section 3.6.1.2 - Figure 49	Figure 51			
		Table corre	ection			
Old		Old	New			
Page	16	Table 12	Table 13			
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Page	29	Section 2.2.1 -Table 19	Figure 15			
Page	32	Section 2.3.2 -Table 19	Table 19 and Table 20			
Page	58	Section 3.6.1.1 Multiple comparisons – TABLE 34-38	Table 34-37			

		Text correction				
Old			New			
Page	18	<b>Section oat -</b> Figure 8 shows the composition of whole grains	Must be deleted			
Page	21	Section moisture content - shown in Error! Reference source not found.	Change with - shown in Table 15			
Page	32	Section 2.3.2- Experiment No. 3 Sweet potatoes and no. 2. Oat	Change with - Experiment No. 2 Sweet potatoes and No. 3 Oat			
Page	35	Section 2.3.5.2 - The mixture of liquid ingredients was added to dry blended pre-mix to modify the product formulation	Change with - The mixture of liquid ingredients was added to dry blended pre-mix to modify the product formulation Figure 16 and Figure 18			
Page	35	Section 2.3.5.2 - The extrudates were dried after extrusion.	Change with - The extrudates were dried and cooled after extrusion figure 17 and Figure 18			
Page	38	Section 2.3.5.5 - The final product will be staying in the dryer	Change with - The final product will be staying in the dryer Figure 21			
Page	39	Section 2.4.1 - Electronic Moisture Analyzer	Change with - Electronic Moisture Analyzer Figure 24			
Page	40	Section 2.4.2 - Amandus Kahl hardness tester	Change with - Amandus Kahl hardness tester Figure 25			
Page	40	Section 2.4.3- Rotronic Water Activity Systems	Change with - Rotronic Water Activity Systems Figure 26			
Page	41	Section 2.4.6.1 - Two commercial protein bars and the baked and extruded bars	Change with -Two commercial protein bars and the baked and extruded bars Figure 28			
Page	43	Section 2.4.6.2 - The baked bar and the extruded bars	Change with - The baked bar and the extruded bars Figure 31			
Page	53	Section 3.3.2.2.4 - Bulk density of the extruded bar Figure 41.	Must be deleted			
Page	55	Section 3.5.2 - the Error! Reference source not found.	Table 32			
Page	56	Section 3.5.2 - The nutritional value as energy (Kcal/60g), % of fat, starch, sugar, dietary fiber, protein and dry matter of the extruded bars are shown in the Table 31. The data is calculated according to the USDA's National Nutrient Database, information from the manufacturer and literature and MATVARETABELLEN.	Must be deleted			

		0 11 0 0 4 4 7 11 0 4 1	
Page	59	Section 3.6.1.1 - Table 34 in overall appearance of	Must be deleted
		the four bars showed that a significant difference	
		was found in the overall acceptance between the	
		extruded bar and the commercial Quest bar. No	
		significant difference was found in the overall	
		acceptance between the backed bar and the two	
		commercial bars; PROTEINBAR chocolate and	
		Quest bar (As the p-value is higher than 0.05).	
		The extruded bar is significant different than the	
		backed bar, the PROTEINBAR chocolate and the	
		Quest bar at 5% level of significance (significant	
		at p-value 0.05). But the remaining protein bars	
		are not significantly different from each other.	
		Moreover, based on the confidence interval, if	
		zero is included in 95% confidence interval, the	
		different bar is not significantly different.	
Page	61	<b>Section 3.6.1.1 -</b> The results in the results in Table	Must be deleted
		36 showed significant difference in the overall	
		acceptance of the smell between the extruded	
		bar and backed bar (p-value is less than 0.05). No	
		significant difference was found in the overall	
		acceptance between the extruded bar and the	
		PROTEINBAR chocolate and the Quest bar (p-	
		value higher than 0.05).	

## 3Results

### 3.1 A literature survey of bars on the market

#### 3.1.1 Energy and protein bars available on the market

The nutrition information of different commercial bars that have been reviewed and the results are shown in Figure 32. The highest protein contents are found in Cliff builders bar and in Rise protein bar, both with 20 g protein per serving (40-60 g). The other commercial bars do not have remarkable high protein content (< 10%), except for MacroBar and Vega sport with 15% protein content. These are mostly used as energy bars, since the amounts of carbohydrate are most prominent. The bar with the highest energy contents Figure 1 are Kate's Real Food bar, ProBar and Tine YT bar with approximately 360 kcal per 100 g, which must be considered as a meal replacement category (> 250 Kcal per gram).

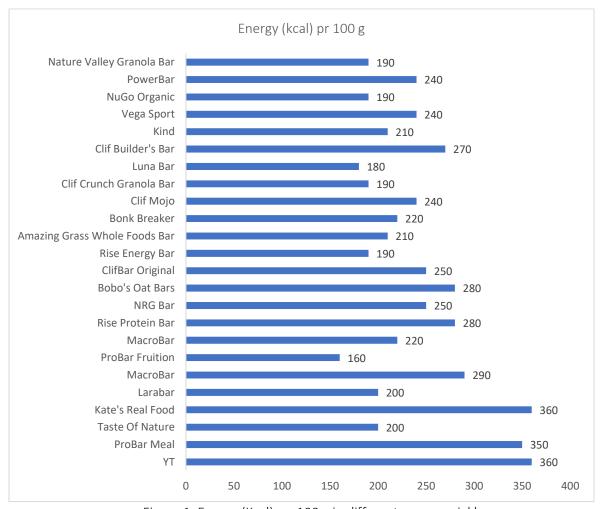
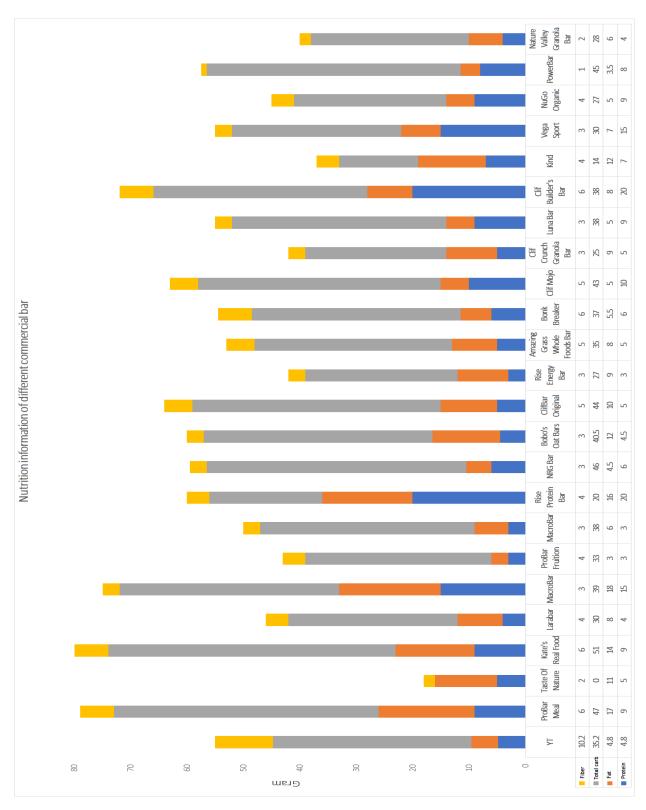


Figure 1. Energy (Kcal) pr. 100 g in different commercial bars

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Figure 34. Nutrition content in (g/total serving size of protein, fat, carbohydrate and fiber) in different commercial bars included in the literature review.



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different from each other. Moreover, based on the confidence interval, if zero is included in 95% confidence interval, the different bar is not significantly different.

Table 35. Multiple comparisons of the four bars related to overall taste

Dependent Variable: overall acceptance of taste

Tukey HSD

		Mean Difference (l-			95% Confidence Interval	
(I) protein food bar	(J) protein food bar	J)	Std. Error	Sig.	Lower Bound	Upper Bound
Extruded	Oven Backed	625	.446	.508	-1.84	.59
	chocolate bar	-1.750 <sup>*</sup>	.446	.003	-2.97	53
	Quest bar	375	.446	.834	-1.59	.84
Oven Backed	Extruded	.625	.446	.508	59	1.84
	chocolate bar	-1.125	.446	.078	-2.34	.09
	Quest bar	.250	.446	.943	97	1.47
chocolate bar	Extruded	1.750*	.446	.003	.53	2.97
	Oven Backed	1.125	.446	.078	09	2.34
	Quest bar	1.375	.446	.022	.16	2.59
Quest bar	Extruded	.375	.446	.834	84	1.59
	Oven Backed	250	.446	.943	-1.47	.97
	chocolate bar	-1.375	.446	.022	-2.59	16

<sup>\*.</sup> The mean difference is significant at the 0.05 level.

Table 35 showed that significant differences were found in the overall acceptance of taste between the extruded bar and the commercial PROTEINBAR chocolate (p-value is less than 0.05). No significant difference was found in the overall acceptance of the taste between the backed bar and the commercial PROTEINBAR chocolate bar and Quest bar (p-value higher than 0.05).

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Table 37. Multiple comparisons of the four bars related to overall texture

Dependent Variable: overall acceptance of texture

Tukey HSD

		Mean Difference (I-			95% Confidence Interval	
(I) protein food bar	(J) protein food bar	J)	Std. Error	Sig.	Lower Bound	Upper Bound
Extruded	Oven Backed	-1.375	.506	.051	-2.76	.01
	chocolate bar	-1.250	.506	.087	-2.63	.13
	Quest bar	750	.506	.460	-2.13	.63
Oven Backed	Extruded	1.375	.506	.051	01	2.76
	chocolate bar	.125	.506	.995	-1.26	1.51
	Quest bar	.625	.506	.610	76	2.01
chocolate bar	Extruded	1.250	.506	.087	13	2.63
	Oven Backed	125	.506	.995	-1.51	1.26
	Quest bar	.500	.506	.757	88	1.88
Quest bar	Extruded	.750	.506	.460	63	2.13
	Oven Backed	625	.506	.610	-2.01	.76
	chocolate bar	500	.506	.757	-1.88	.88

Table 37 showed no significant difference in the overall acceptance of texture between the bars (p-value higher than 0.05).

# 3.6.1.2 Tukey Test / Honest Significant Difference

Tukey's multiple comparison tests are one of various tests that it used to specify which mean(average) value between a set of means vary from the rest.