CHAPTER 5

DATA ANALYSIS, FINDINGS AND DISCUSSION

5.1 Introduction

Data collection was performed through a surve omprised 61 questions and statements representing eight latent variable number of surveys distributed to 430 respondents, 8 as 12 survey surveys were incomplete. Following that, 407 analysis, which was conducted through the Statist ences (SPSS) Version 21 and Analysis of Moment Str The quantitative study method was adopted to obta ledge in the targeted area of interest. Additionally based on theories, which were tested using CFA

5.2 Sample Distribution

As elaborated in Chapter Foun the turveys were distributed to 430 people. From all surveys close surveys were returned from male and female respondents. Provided that 12 surveys presented musting values or incomplete responses during the data screening process, the surveys were excluded, leaving 407 completed and usable surveys (Peredaryenko, 2016). Table 5.1 presents the final breakdown of the distribution of samples after the end of the survey.

CharacteristicFrequencyPercentageSample distribution430100%Returned41897%Incomplete123%Used in analysis40795%

Table 5.1: Specification of sample distribution

5.3 The Descriptive Analysis

The demographic analysis was performed of Quantitative study descriptive statistics were employed to elaborate characteristics of the data collected in this study 20 **r**ized the sample and measures. The descriptive analys standard deviation, and frequencies to understand nole mean value of ever variable were agreed on. Norably, t e in identifying the items, which were most agreed by It also illustrated the artionant data through simple graphic an riate analysis investigated every variable separate

Distribution: This study substituted the amount of range or individual values in a variable. The main measure distribution respectively by the frequency table.

Central tendency. This distribution is very important as an estimation of the distribution center for values. The central tendency estimates consist of three different categories, with mean as the most popular category.

Dispersion: This term denotes the growth of values at the central tendency, which consists of two common measures of dispersion, namely the range and standard eviation. Standard deviation is the most specific and elaborated estimate of dispersion due to the ability of the outlier to exaggerate the range. The following subsections describe the results of demographic questions associated with the sample of the very

5.3.1 Gender

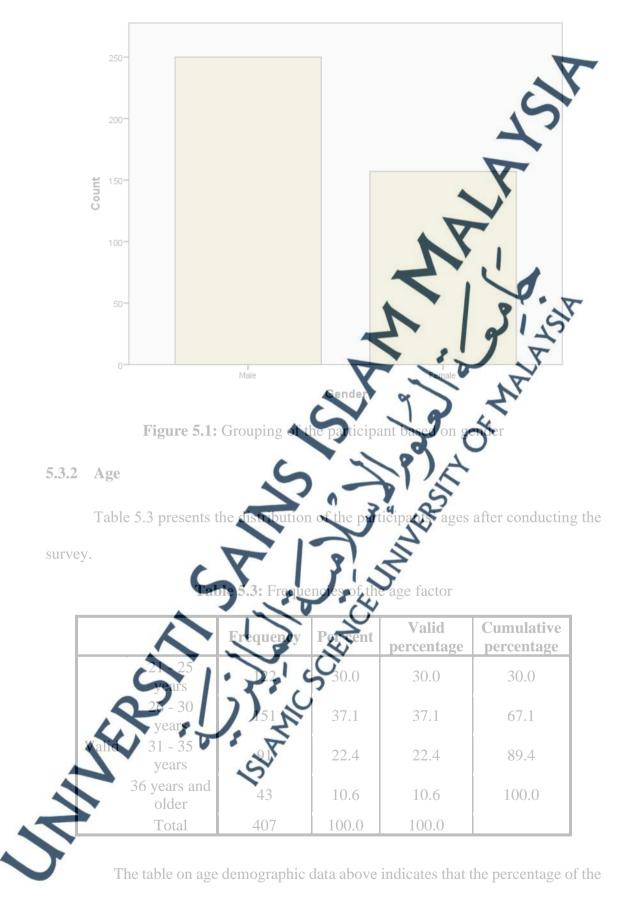
The findings of the data analysis of the gender are shown in Type 5.2 followed by the number of genders established by the members of this study survey.

		Frequency	Per cent	Valid per cent	Cumulative per cert
	Male	250	61.4	01.4	64
Valid	Female	157	38.6	38.6	100.0
	Total	407	100.0	100.0	

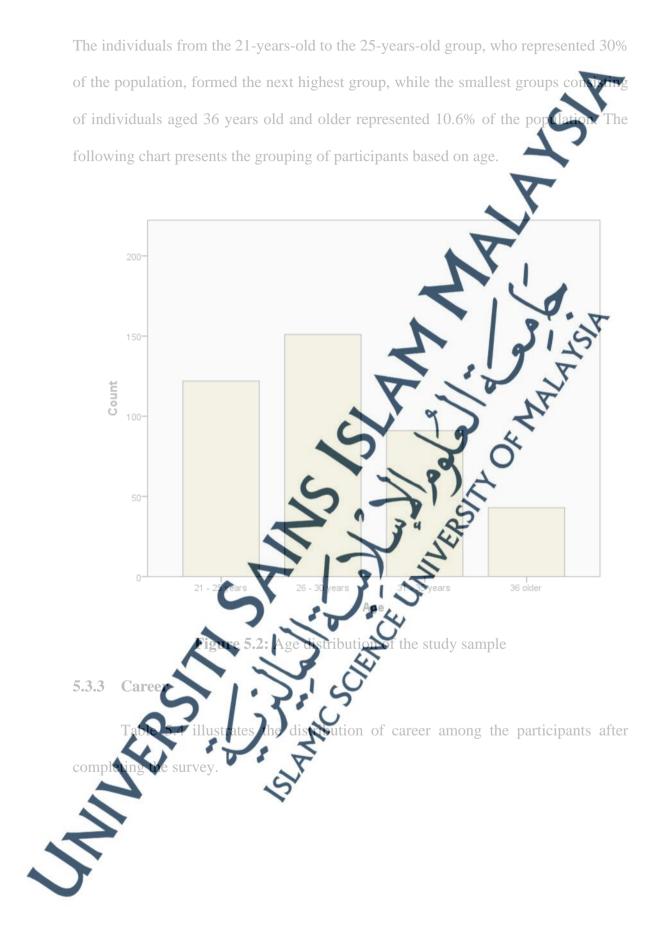
Table 5.2: Frequencies of gender f

Table 5.2 illustrates the frequencies and percentages of gender participating in the survey. It was found that the male participants represented the highest percentage (61.4%), followed by the percentage of the female participants (38.6%). The chart below demonstrates the grouping of participants based or cender.

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individuals ageing between 26 and 30 years old was the highest (37.1%) in this survey.



		Frequency	Percentage	Valid percentage	Cumulative percentage
Valid	Student	161	39.6	39.6	0.0
	Self- Employed	46	11.3	11.3	
	Government	18	4.4	4.4	5.3
	Education	25	6.1	6.1	61.4
	Management	13	3.2	3.2	64.6
	Employee	88	21.6	21.	86.2
	Others	56	13.8	13.8	100.0
	Total	407	100.0	0.0	

Table 5.4: Frequencies of occupation factor

Based on the table regarding the frequencies and percentages of occupation among the participants, it was found that the students constituted the highest vercentage (39.6%). This was followed by the employees representing 21.6% of the population, while the individuals from the management represented the lowest vercentage (3.2%). The following chart presents the distribution of the participants occupation.

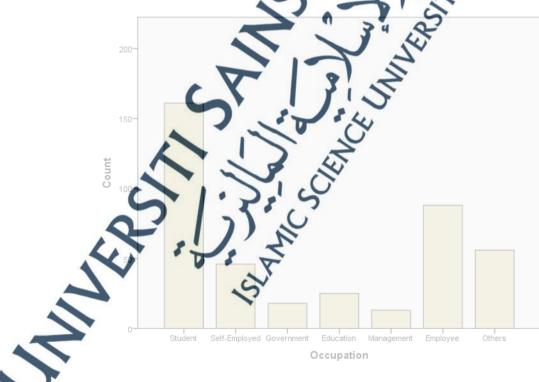


Figure 5.3: Occupation graph of the study sample

5.4 Descriptive Statistics Findings of Independent Variables

			Mean	Std. Deviation	Variance	Skewness	Jurtosis
Item	Measure phrases	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic
1	Wholesomeness	407	3.6005	.99463	.989	861119	.333
2	Attitude	407	3.6059	.89487	.801	633	.204
3	Habit	407	3.5012	.99257	.985	-\$17317	381
4	Awareness of individual	407	3.6228	.89134	-794	484484	092
5	Sources of information	407	3.6461	.90136	812	- 460 9460	1 68
6	Process verification	407	2.8251	1.32516	1.756	-0139013	-1.228
7	Awareness of information	407	3.712	.74539	1.482	-52	.148
8	Traceability	407	2.714	1.57537	2.482	.093	-1.611

Table 5.5: Mean and standard deviation results

Table 5.5 presents the findi n and standard deviation) of the seven independen prime factor with the bles. highest mean value was the av inform 3.712), followed by sources of information (me ual (mean = 3.62), process verification (mean 2.714). Meanwhile, the was traceability (mean = 2.714), independent varial indicating the ecifically the prediction of the factors behaviour of seeking information about influencin sults were almost similar to one another. halal f

5 Kmo and Bartlett's Test Kmo and Bartlett tests of the sample adequacy were applied to the scale factor f this study, which was used to confirm the adequacy of the study sample to conduct the exploratory factor analysis.

	× X
Kaiser-Meyer-Olkin measure of sampling adequacy.	0.909
Approx. Chi-Square	3930.443
Bartlett's test of sphericity Df	78
Sig.	0.000

Table 5.6: KMO and Bartletts test

The results in Table 5.6 demonstrated the KMO scale showed a value of 0.909, which indicated the adequacy of the study sample for the use of exploratory factor analysis. In this case, the Bartlett value was also highly appropriate (3939443) when the level of statistical significance amounted to 0.0000 Similarly, KMO and Eachett's test indicated that the paragraphs used in the tool fulfilled the requirements for exploratory factor analysis, implying that the factor analysis could be performed on the reviewer's satisfaction quality scale variables.

5.6 Reliability Test

Bryman and Bell (2011) stated that 'reliability veters to the consistency of a measure of a concept" In achieving understanding regarding the performance of the dependability of the measurement for every stement, five-scaled questions were presented. The measurement reliability for each variable was determined using the Cronbach's Alpha Notably, Cronbach's appha measurement method is known for its reliability tests (Bryman and Bell, 2011). Table 5.7 below presents the Cronbach's Alpha approximate available in this research

ha value for every element examined in this research.

 Table 5.7: Cronbach's Alpha of each variable

Variables	Cronbach's Alpha
Wholesomeness	.814
Attitude	.735
Habit	.874
Awareness of individual	.881
Sources of information	.913

Process verification	.790	
Awareness of information	.834	
Traceability	.793	

Table 5.7 demonstrated that attitude and traceability had nately Cronbach's Alpha values of 0.700 and 0.800, respectively. Therefore, a low degree of internal constancy between the items was found. Shiu et al. (2002 (3) highlighted p. that an Alpha measurement at 0.600 (see Table 5.8) in the a low internal inconsistency. Subsequently, two elements from Table 6, include cial names, brand, and social groups had values smaller than 0.800, which repl e of sente d a s internal constancy factors of the Malaysian Musking onsumers king NA information about halal food products.

5.7 **Pearson Correlation Finding**

	Tab	le 5.8: P	earson	orgelatio	n rest o	the yas	iables		
		Wholewmeness	Alfinde M	La Contraction	Acceness of Continued	Sources of the	Process verification	Awareness of information	Traceability
Wholesom eness	Pearson		0.835	0.69	0.912	0.694	0.991	0.769	0.735
CHODS	Sig.	1.	23	(G)	.000	.000	.000	.000	.000
	0	407	407	407	407	407	407	407	407
Attitude	Pearson correlation		7	0.764	0.846	0.747	0.871	0.675	0.617
	Sig. (2-tailed)	.000	S	.000	.000	.000	.000	.000	.000
	N	407	407	407	407	407	407	407	407
Habit	Pearson correlation	0.697	0.76	1	0.979	0.694	0.952	0.612	0.713
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000
	N	407	407	407	407	407	407	407	407
	Pearson correlation	0.912	0.846	0.979	1	0.811	0.831	0.691	0.757

Table 5 9.

Awareness of	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000
individual	N	407	407	407	407	407	407	407	407
Sources of informatio	Pearson correlation	0.694	0.747	0.694	0.811	1	0.563	2.000	0.671
n	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000
	N	407	407	407	407	407	407	407	407
Process verification	Pearson correlation	0.991	0.87 1	0.952	0.831	0.563		0.653	0.926
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.00	.000	.000
	N	407	407	407	407	407	407	407	407
Awareness of	Pearson correlation	0.769	0.675	0.612	0.691	0.572	0.653		0.825
information	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	1.5	.000
	N	407	407	407	407	407	497	40%	407
Traceability	Pearson correlation	0.735	0.617	0.713	0.757	0.671	0.26	A825	1
	Sig. (2-tailed)	.000	.000	.000	000	T P	1990.	.000	.000
	Ν	407	407	407	407	30	Ô	407	407

Table 5.8 presents the co ors, such as attitude, habit, awareness, informatio areness of information, Malo and traceability, and the consumers' behaviour of fa thermore, correlation analysis is seeking information ab of developments occurring in the two commonly empl the SPSS, several statistic-based elements ne associations between the elements. When examinat urren ch and its elements were considered, the Pearson the c coefficient analysis as not suitable as it enabled the correlation between iables. Besides, interval or ration-scaled measurements were required (Shiu et 2009, p. 556). Shiu et al. (2009, p. 555) stated that the association coefficients ranging from .81 to 1.00 indicated a highly strong association, while .61 to .80 implied

a strong association, .41 to .60 represented a moderate association, .21 to .40 indicated an insignificant association, and .00 to .20 indicated that the absence of association Therefore, all elements were positively and majorly associated with the choice to Halal food product. However, the level of association between the actors was different from the highly significant relationship between process verification and (0.991), awareness of individuals (0.912), and attitude (0.834). This was followed by the significant relationship between awareness of information (69), traceability (0.735), habit (0.697), and sources of information (0.694). There were correlated with wholesomeness, which influenced alaysian behaviour of seeking information about halal for

5.8 Multiple Regressions Analysis

Pallant (2005, p. 140) highlighted that the Multiple Regression Analysis (MRA) could be employed to elaborate on the association between one dependent element and several independent elements. Furthermore, MRA could illustrate the ability of the independent variables to elaborate on the variance h, the dependent and identify the statistical prominence of the findings, specifically regarding the model and individual independent elements (Pallant 2005). 1453

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 Table 5.9:
 Multiple regressions analysis

Model	R	R Square	Adjusted R Square	Std. Error of the estimate	7
1	.894 ^a	.799	.795	.37187	

Based on Table 5.9, the value of R^2 (the regression coefficient) amounted to .799 (.118 x 100 = 11.8%), which indicated the variation of the dependent factor, as demonstrated in the model. It was also implied that the employed model represented 11.8% of the variation in purchase intentions and the beneficient association with the independent factors.

Table	e 5.10: ANOVA	A table for the	regression i	Dec Y	N.
Model	Sum of squares		Mean square	Y	Sig
D '	1 < 1 405		20.001	62 120	0/

	Regression	161.405	5	32,281	3.432	.000 ^b
1	Residual	40.657	294	?)	7	
	Total	202.002	299	12	•	
			" 3	4 2		
	Based on Table 5.	10 above, the lo	w E volue a	ndsmaller	significance	value (p <
				1		
JO) ir	nplied a statistica	l significance w	ithe the	odel and as	ssociation b	etween the
ement	ts. Table 5.10 also	o indicated that	the current	research 1	model had a	a statistical
			2			
gnific	ance because of th	ie smaller Evalu				
			G			
	2	510	2			
	8					
	47 10	18 5				
		N				
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	r					

			Coefficients ^a			
Mod	lel	Unstanc coeffi	lardised cients	Standardised coefficients	T	ig.
		В	Std. error	Beta		
1	(Constant)	316	.120		-2.630	.009
	Attitude	.273	.042	.245	6.448	.000
	Habit	.133	.067	.134	1.993	.047
	Awareness of individual	.033	.083	.03	.400	.000
	Sources of information	.134	.045	N	1.455	.000
	Process verification	.234	.067	.255	2.50	.000
	Awareness of information	.372	.041	.385	J.016 5	X .000
	Traceability	.296	.040	276	7.34	.000
a. De	ependent Variable:	Wholesomer	iess	212	· F	

Table 5.11: Regression coefficients

To determine the impacts of lependent factor included incorporated in the rethe standardized coefficient (Beta) value was c Essentially, higher et a beta value and lower signifi independent factor implied the most significant im ant, 2005, p. 153). The highest .385, with a significance level beta coefficient a coefficient for traceability was .276, of 0.000 (p Furthermore, attitude exhibited a beta with а 0.047 (p < .05), while sources of information coeffic t a significance level of 0.000 (p < .05). Apart from eta coefficient of 3 eta coefficient of process verification amounted to 2.55 at a significance level .05), while awareness of individual amounted to 2.44 at the significance evel of 0.000 (p < .05), indicating that awareness of information (independent variable) made the most significant and distinguished impact on the dependent factor. Moreover, the second-highest beta coefficient for traceability was .276 at a significance level of 0.000 (p < .05), indicating that traceability (independent variable) was the second significant distinguished impact on wholesomeness (dependent factor).

5.9 Data Analysis Using AMOS

AMOS Version 22 was employed for the analyses, which are a follows:

5.9.1 Confirmatory Factor Analysis

Before the CFA analysis for every factor, the following points were considered

- 1) No adverse value was found in the remaining measurement models.
- 2) Every element should consist of a minimum of three indicators to decrease the standard error estimate proportion.
- 3) When less than three (observed factors) elements vere incorporated into one element, the specific element would be removed from the structural model.The CFA analysis result for each factors allustrated in the next sub-section.
- 5.9.1.1 Confirmatory Factor Analysis of Artifude Variable

CFA is an appropriate statistical marked to examine the level to which the measured factors (elements) load on the ore specified constructs represented the data of this study. Accordingly, CFA would lead to a confirmatory examination on the performance of the investigated factors in defining the latent factors of interest (Holmes-Smith and Coote, 2006).

Confirmatory Factor Analysis (CFA) offers a statistical analysis, recifically, the goodness-of-fit estimates the general computation error in the significance examinations for the factor loadings. Every latent construct incorporated

Chi-Square= 4.246 DF=5 CMINDF=.849 P=.515 TLI=1.024 CFI=1.000 RMSEA=.000 qu1 qu3 e(104 qu5 Figure 5.4: Initial mea The initial measurement ariable ure above illustrates the fit indices of the model, which re, the reduction of the magnitude was crucial to enhan model with the data. When the fit indices were fo ovement and increase in the rne, 2010). Similarly, poor degree level of fit with the examined was not adequate to create a positive of freedom was t AMOS and the real and examined data in level of fit b alue was highly impacted by the sample size, the ment of the normed ratio of the chi-square, which was (X2/df), was mmended. The presence of the normed ratio of ≤ 3 would create a positive fit with examined data. Furthermore, the initial reading for fit indices (CMIN/DF, GFI,

in the model was determined, while the calculated indicator variables (items) were

distributed to the latent constructs, as illustrated in Figure 5.4.

AGFI, CFI, PCFI, RMR, NFI) and factor loading of the entire elements implied the

inadequate fit in the initial measurement model of institutional elements with the data. However, a substantial improvement could be made on this model (Hair, 2010).

As previously discussed, the poor model fit indices, low or high p-value, and a high degree of freedom indicated a poor fit in the model with the examined data. Therefore, the first measurement model required further improvement to manage the contradicted approximate correlations by AMOS. This process involved real data in the attitude factor measurement model, which was developed according to the data examined through the survey data collected from the study sample. The structural part of the final factor measurement model was illustrated

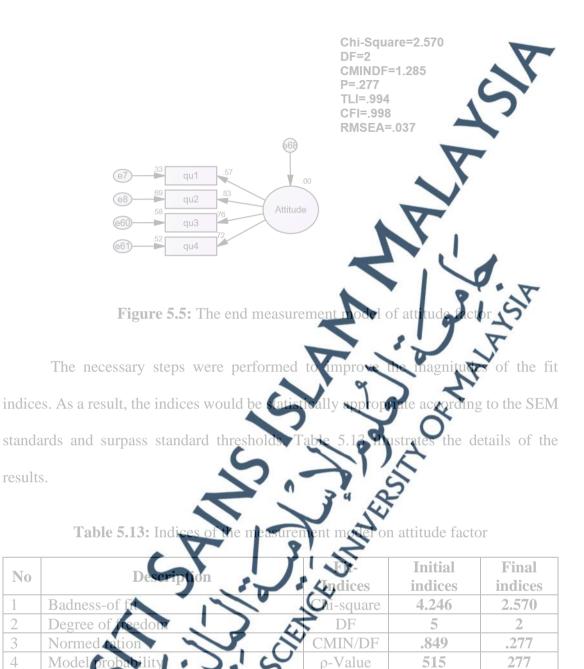
The adjustment of the first measurement mod

Many processes were performed to emhance the measurement model fit, which involved the deletion of elements with minor factor loading or interpretation percentage and adjustment indices (Peredaryenko, 2016)

Table Deleted items of attinde factor

Figer 5.5 demonstrates the fittab factor measurement model of attitude factor,

which was employed to penstruct the research structural model.



The numbers of the fit indices in Table 5.13 indicated the variances between the value prior and after the enhancement in the measurement model of attitude factor. After the essential steps taken to improve the measurement model, most of the fit indices demonstrated an acceptable level of fitness.

CFI

TLI

RMSEA

.99

.99

.037

1.000

1.240

.000

5

6

7

Table 5.14 illustrates the most important correlations between the dimensions and the statistical evidence, including the critical ratios (t) and the significance

No	Question	Estimate	S.E	C.R	Р	Loading	SMC
1	Q1	.829	.180	7.91	***	.57	33
2	Q2	.574	.132	6.44	***	.85	.69
3	Q3	.765	.178	7.69	***	N ,	.58
4	Q4	.719	.172	7.45	***	72	9.

 Table 5.14: Estimates and the value (T) of attitude factor

The analysis of the measurement model of attrude factor indicated that all the fit indices exceeded the standard threshold. Additionally, all the factor reading of items (indicators) were statistically acceptable (> 0B), with all the leadings being positive (Peredaryenko, 2016).

5.9.1.2 Confirmatory Factor Analysis of Pable Variable

The researcher performed a CFA analysis of the latent factor of habit. The first measurement model indicated that habit was a latent factor of first order. This research also employed five items to obtain information about the habit factor with the following contents of the items: Chi-Square= 52.432 DF=5CMINDF=10.486 P=.000TLI=.908 CFI=.954 RMSEA=.163

Figure 5.6: First measurement model of habit

The review of the first measurement model of habit construct and examination of these model fit indices led to a chi-square (XS) value of 52.432. To enhance the fitness level of the measurement model with the data, a cover magnitude should be obtained through these indices (Zumrah, 2012).

The normed ratio (X2/af) is a crucial factor of model fit with examined data. Essentially, a good faccould be achieved with the examined data when the normed ratio amounted to ≤ 3 of the habit measurement model showed a normed ratio of 10.486, which was higher than 3 in this measurement. For this reason, improvement should be performed.

wave 600.000. Both the initial magnitudes of RMSEA and PCLOSE did not reflect the satisfactory fit values and required improvement to increase the fit of the CFA model. However, as discussed in the preceding section, an inadequate model fit index would impact the structural model during the development of the study theoretical model. The structural portion of the initial two-factor measurement model of the habit effect was illustrated.

The modification to the initial measurement model

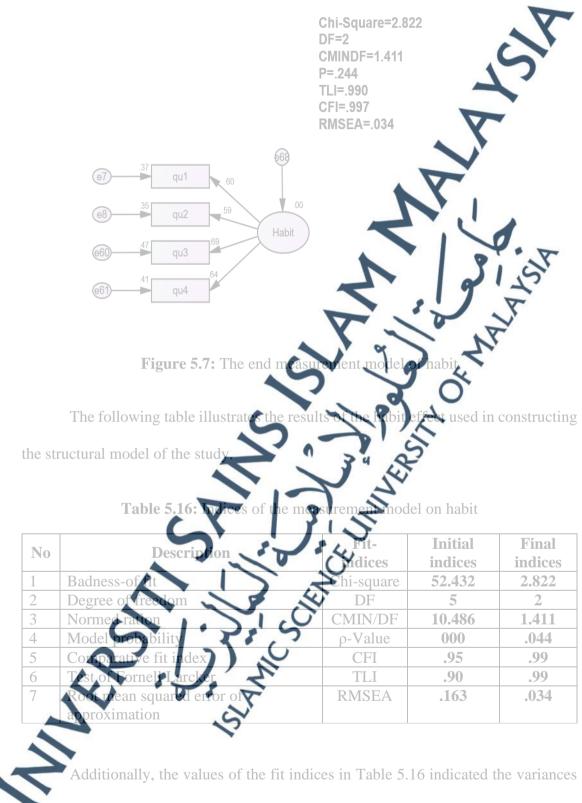
The degree of fit of the model with the observed data was enhanced, along with all the fit indices. Meanwhile, low factor loading indicators and modification indices were removed. Modification indices established the residuals influencing the model fit in the measurement model. Provided that all these processes increased the magnitudes of all fit indices, the measurement model gained statistical acceptance and proves to be satisfactory by the SEM standards.

 Table 5.15: Deleted its as of habit factor

1 I would examine the hala status of the food before buying it

The following modified figure presents the final one-factor measurement model

of habit effect used to construct the research structured model.



ween the value prior and after the enhancement of the measurement model of habit

factor. Following the process of improvement in the measurement model, most of the fit indices demonstrated an appropriate level of fitness.

Table 5.17 illustrates the most important correlations between the dimensions and the statistical evidence, including the critical ratios (t) and the significance level.

No	Question	Estimate	S.E	C.R	Р	Loxing	SMC
1	Q1	1.151	.149	7.745	***	IN,	.37
2	Q2	1.000	.144	7.213	***	59	N.V.
3	Q3	1.242	.150	8.277	***	.69	115
4	Q4	1.202	.149	8.076	***	30	.41

Table 5.17:	Estimates	and the	value ((T)	of habit factor
T COLC CATL	130000000	01107 UII0	1001000 1	(- /	or maore captor

The analysis of the measurement model of habit factor indicated that all the fit indices exceeded the standard thirtsheld. Besides, all the factor loading of items (indicators) were statistically acceptable (> 0.3), with all the leadings being positive (Peredaryenko, 2016).

5.9.1.3 Confirmatory Factor Axalysis of Availables of Individual Variable It was found from the EFAranalysis that the awareness of individual factor consisted of our factor. Therefore, the OFA analysis was performed on the latent variables of awareness of individual factor. The initial measurement model demonstrated that the awareness of individual factor was a latent variable of the second order, which comprised the first-order factor. The contents of the awareness of individual factor are presented in the following figure: e^{2} e^{43} qu^{1} e^{65} e^{93} e^{67} qu^{2} e^{86} e^{67} qu^{4} e^{80} e^{67} qu^{4} e^{63} qu^{5} e^{67} qu^{4} e^{63} qu^{5} e^{67} $e^$

Chi-Square= 110.335 DF=5 CMINDF=22.067 P=.000 TLI=.811 CFI=.905 RMSEA=.243

Figure 5.8: Initial measurement model of individual awareness

Based on the figure above, the initial measurement variable of individual's awareness demonstrated the fit indices of the model, which increased a poor fit. Therefore, the reduction of the magnitude was required to increase the level of fit of the measurement model with the data.

The modification to the initial measurement mode

The researcher enhanced the fit of the model using the observed data. Similarly, enhancement was performed on the fit indexs, including the deletion of low factor loading indicators and adjustmentionices. Therefore, the measurement model achieved statistical acceptance and was proven to be satisfactory according to SEM standards.

Table 5.18: Deterministic items of individual awareness factor

Awareness Individual

1 I trust the information provided by the official sources about halal food products

The following modified figure presents the final one-factor measurement model

of awareness about the individual effect used to construct the research structural model.

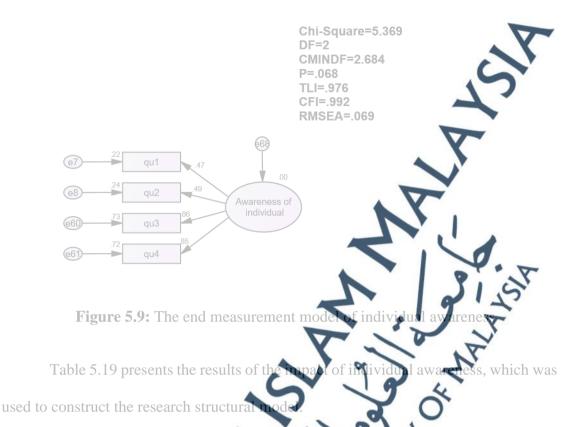


Table 5.19: Indices of the measurement model on the awareness of individual factor

No	Description	Fit-	Initial	Final
UNU	Description	indices	indices	indices
1	Badness-of fit	J Chi square	110.335	5.369
2	Degree of freedom		5	2
3	Normed ration	MIN/DF	22.067	2.684
4	Model probability	-Value	000	.006
5	Comparative fit index	CFI	0.905	0.992
5	Test of Fornell Larcker	TLI	0.811	0.97
7	Root mean squared error of	RMSEA	0.243	.069
	approximation			

The values of fit indices prevented in Table 5.19 indicated the variances between the value prior and after the enhancement of the measurement model for the individual awareness factor. Following the essential processes taken to improve the measurement model, most of the fit indices presented an acceptable level of fitness (Goldstein, 2011). Table 5.20 illustrates the most important correlations between the dimensions and statistical evidence, including the critical ratios (t) and significance level.

No	Question	Estimate	S.E	C.R	Р	Loading	SMC
1	Q1	.983	.148	6.65	***	.47	22
2	Q2	1.00	.153	7.10	***	.4	.24
3	Q3	1.59	.190	8.40	***	194	.73
4	Q4	1.58	.189	8.46	***	85	9. v

Table 5.20: Estimates and the value (T) of awareness of individual f

The analysis of the measurement model for individual awareness factor indicated that all the fit indices exceeded the standard threshold. Besides, all the factor loadings of items (indicators) were statistically acceptable (> 06) with all leadings being positive (Peredaryenko, 2016).

5.9.1.4 Confirmatory Factor Analysis of Process Ventication Variable

Among the primary approaches of evaluating the goodness-of-fit in SEM is the Chi-Square statistics. The model was identified us an acceptable value, which was lower than the degree of freedom by three times are childicated a relative of a value lower than 5. The following figure presents the initial measurement model of process verification

impact used in C

Chi-Square= 44.083 DF=5 CMINDF=8.817 P=.000 TLI=.899 CFI=.949 RMSEA=.148

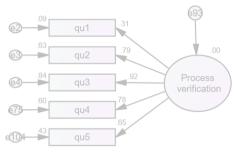


Figure 5.10: Initial measurement model of process verification

Based on the review on the initial measurement model of process verification construct and examination on these model furindices, it was found that the value of chisquare (X2) amounted to 44.085. Therefore, to enhance the fitness level of the measurement model with the data the fit indices should reach a lower magnitude (Zumrah, 2012).

The normed-ratio (X)/df is a cancil indeator of model fit with the examined data. Essentially, according could be achieved through data observation if the normed-ratio amounted to ≤ 3 . Meanwhile, the normed-ration for the cognitive effect measurement model amounted to 88247. Provided that the normed-ratio value was higher than 32m this measurement, an improvement was necessary.

The reading of the magnitudes to fit indices (CMIN/DF, GFI, AGFI, PCFI, RMIR, NFI) demonstrated an unsatisfactory fit with the observed data in the initial measurement model of process verification. Therefore, substantial improvement was required (Lightning et al., 2013). The result also implied that the RMSEA amounted to 0.148, while the significant PCLOCE amounted to 0.000. Following that, the initial magnitudes of RMSEA and PCLOSE did not reflect the satisfactory fit water. However, these values required improvement to increase the fit of the CFA mede.

The adjustment of the first measurement model

Enhancement was performed on the level of model fit with the examined data and all the fit indices, including the removal of the factor leading indicators and modification indices. Modification indices established the residuals impacting the model fit in the measurement model. Overall, these processed increased all the fit indices magnitudes. Therefore, the measurement model gained statistical acceptance and was proven to be satisfactory according to the SEM standards.

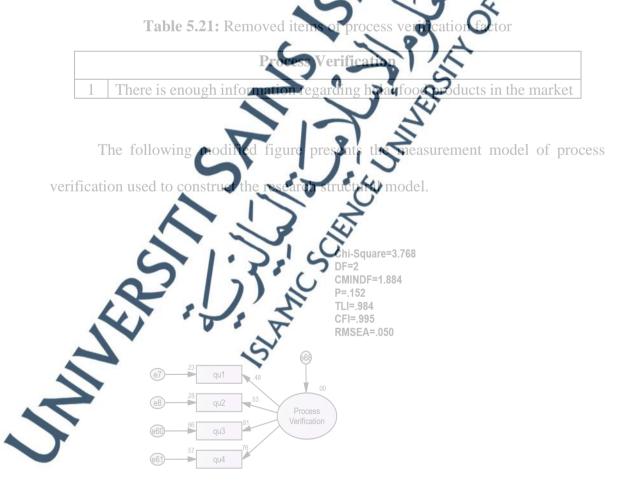


Figure 5.11: The end measurement model on process verification factor

Table 5.22 illustrates the results of process verification, which was emproved to construct the research structural model.

Table 5.22: Indices of the measurement model on p	process verification
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No	Description	Fit- Indices	Initial Vidices	Final indices
1	Badness-of fit	Chi-square	44.083	3.768
2	Degree of freedom	DE	5	2
3	Normed ration	CMIN/DF	8.817	1.88
4	Comparative fit index	PL	0.949	00
5	Test of Fornell Larcker	THI	1.892	138
6	Root mean squared error of approximation	RMNEA	3 1.14	X ^{0.050}

Table 5.22 illustrates the numbers of fiblindices and the differences in the values prior and after the enhancement of the measurement model of process verification. Therefore, excellent fit indices were observed from the measurement model of process verification. Additionally, all factor loadings of items are positive and achieved statistical acceptance (10,3)Table 5.23 presents the most neportant correlations between the dimensions and

statistical evidence, including the critical ratio (t) and significance level.

Table 5.23: Estimates and the alue (T) of Process Verification Factor

	No	Question	Estimate	S.E	C.R	Р	Loading	SMC
		Q1	1.038	0.154	6.743	***	.48	.23
5		Q2	1.000	0.192	5.312	***	.53	.28
	3	Q3	1.487	0.189	7.865	***	.81	.66
4	1	Q4	1.347	0.171	7.881	***	.76	.57

The result of testing through the model path estimates in Table 5.23 presented the value of standardised estimate ranging from 1.000 to 1.487, while the results of p = *** presented a value of critical ratio higher than 1.96. In this study, the value ranging from 5.312 to 7.881 indicated a significant relationship between these questions.

5.9.1.5 Confirmatory Factor Analysis of the Variables of Information Sources

Confirmatory Factor Analysis (CFA) is a statistical analysis performed on the goodness-of-fit, which also enables the approximation of standard errors and computation of significance examinations for the factor loadings. Every latent construct incorporated in the model was determined, while the evaluated indicator factors (elements) were transferred to the latent constructs as demonstrated in Figure 5. 12.

Figure 5.12: The measurement model on information sources factor

The value of fit indices in Figure 5.12 demonstrates the results of the enhanced reasurement model of project management information sources. Most of the fit indices indicated that an acceptable degree of fitness required steps of enhancement for the measurement model. The following table illustrates the most important correlations between the dimensions and the statistical evidence, including the critical ratios that the significance level.

No	Question	Estimate	S.E	C.R	Р	Loading	SMC
1	Q1	1.015	0.136	7.454	***	V-	.32
2	Q2	1.000	0.184	7.241	***	61	.38
3	Q3	0.893	0.126	7.103	***	16	9 .31
4	Q4	1.084	0.141	7.707	744	10 g	125

Table 5.24: Estimates and the value (T) of the factors of information source

The research questions were nich also simultaneously estimated the equation strong and effective association, which was red of the model, was d estimate b reflected in the value of the standa and 0.893. Meanwhile, the results of p = 0.05, a standard and 0.126, loading ratio o of higher than 1.96 indicated between 0.70 and 0.56 p between these questions. the presence of a s

5.9.1.6 Confirmatory factor Analysis 5 Awareness of Information

It was found from the EFA analysis that the awareness of information consisted of one factor. Subsequently, the researcher performed a CFA analysis of the latent variables of information awareness factor. The initial measurement model demonstrated that awareness of information factor was a latent variable, which consisted of one firstorder factor. Overall, this factor is illustrated as follows:

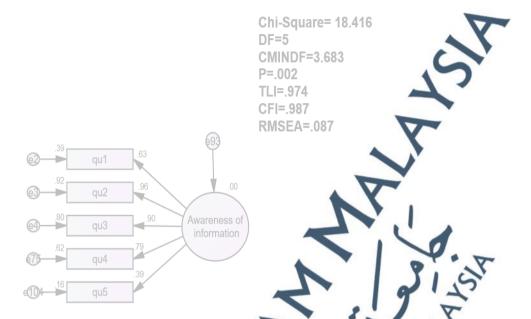


Figure 5.13: The initial measurement model of the awareness of information factor

The CFA results of information awareness factor denotestrated the fit indices of the model, in which the chi square (X2) arounded to 39.416, while the degree of freedom amounted to 5. Despite the positive results, an improvement was required to enhance the degree of the measurement model with the data (Zumrah, 2012). Besides, the probability was significant at (p = 0.000)

The reading of the magnified of the indices indicated an unsatisfactory fit from the early measurement model of intermation awareness factor. Consisting of the observed data, the model required argnificant enhancement (Zumrah, 2012). Provided that the satisfactory fit values were not achieved, an improvement was crucial. As highlighted in the preceding segments, the non-satisfactory model fit indices had an impact on the structural model during the final stage of the development of the research theoretical model. The modification of the initial measurement model

To enhance the degree of freedom of fit in this model, numerous processes were involved, including the removal of low factor loading indicators and modification indices. Specifically, modification indices establish the residuals impacting the model fit in the measurement model of information awareness factor (Perederyenko, 2016). Overall, these improvement processes enhanced the magnitudes of all the fit indices.

Table 5.25: Deleted items of information awareness factor

Awareness of Information
Using non-official sources, such as social media or family and friends for sourching halal food products, requires less time
The figure below presents theread factor measurement makel of information
areness factor employed to construct the research structural model.
DF=2 CMINDF=1.600
P=.20 TLI-998 FI=.995
RMSEA 11
ext 32 qu2 57 wwarenet st information
41 B4
Figure 5.14: The end measurement model on awareness of information factor

The measurement model was statistically acceptable and satisfactory based on the SEM standard. The CFA result is illustrated in Table 5.26.

No	Description	Fit- Indices	Initial indice	Final indices
1	Badness-of fit	Chi-square	18,416	3.219
2	Degree of freedom	DF		2
3	Normed ration	CMIN/DF	3.683	1.609
4	Comparative fit index	CFI	0.98	0.99
5	Test of Fornell Larcker	TL	0.97	0.98
6	Root mean squared error of approximation	RMSEA	0087	0.041

Table 5.26: Indices of the measurement model on awareness of information

The value of fit indices in Table 5.26 p after the enhancement of the measurement model ss of factor. fo Most of the fit indices indicated an app as achieved after fitness leve several processes of enhancement nermore, the normed ratio (CMIN/DF) was accep the standard threshold value of 3. This was follow idices, where the RMSEA value was reduced to 0 xcellent value of fit, which was any RMSEA value below 0.8 lower than the s fit Moreover, the following table presents represented a nsions and statistical evidence, including the

No	Question	Estimate	S.E	C.R	Р	Loading	V
1	Q1	0.894	0.121	7.405	***	.60	80
2	Q2	1.000	0.132	7.131	***	.57	.32
3	Q3	0.975	0.122	7.966	***	V	.45
4	Q4	0.956	0.122	7.849	***	.64	.41

Table 5.27: Estimates and the value (T) of awareness of information factor

An effective and strong association was observed between the questions of the model, as reflected from the value of the standardized estimate between 0.989 and 1.000. Meanwhile, the results of p = 0.05, the standardized error between 0.121 and 0.132, loading ratio between 0.57 and 0.67, and value of the critical ratio of over 1.96 indicated a significant and positive relationship between these questions. In this study, the value ranged from 7.131 to 7.966, which denoted the type of relationship.

5.9.1.7 Confirmatory Factor Analysis of Tracerbility

The Confirmatory Pactor Analysis was performed on the latent variables of traceability factor. Based on the figure below, the initial measurement model indicated that cultural factors were the latent variables of the first order.

Chi-Square= 156.794 DF=5 CMINDF=31.359 P=.000 TLI=.559 CFI=.779 RMSEA=.292

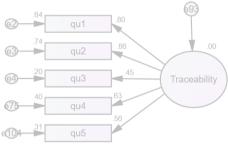


Figure 5.15: Initial of the measurement model on traceability factor

The reading of the magnitudes hat the early measurement model of traceability ctory fit with the prised ac unsati fac observed data (Zumrah, 2012) were not achieved, leading to the importance of the preceding segments, ement? the non-satisfactory model structural model during the d and final stage of the devel model.

The adjustment of the first measurement stade

To improve the degree of freedom of fit in this model, various steps were performed, including the removal sellow factor loading indicators and modification indices specifically, modification indices established the residuals impacting the model fit as the measurement model of traceability factor (Peredaryenko, 2016). Overall, these improvement processes enhanced the magnitudes of all the fit indices.

Traceability The validity of the halal logo 1 Figure 5.16 presents the end factor measurement model of tr cability factors, which were used to construct the research structural model. OXANNA Chi-Squa DF=2 s tu nodel on traceability factor Fig uate and appropriate in statistic terms based ndard, as sho CFA results in Table 5.29. on the

Table 5.28: Removed items of traceability factor

No	Description	Fit- Indices	Initial indices	Fire
1	Badness-of fit	Chi-square	156.794	4.786
2	Degree of freedom	DF	5	2
3	Normed ration	CMIN/DF	31.35	2.393
4	Comparative Fit Index	CFI	0.77	0.98
5	Test of Fornell Larcker	TLI	0.55	0.96
6	Root mean squared error of approximation	RMSEA	1292	0.063

Table 5.29: Indices of the measurement model on traceability factor

The value of fit indices in Table 5.29 demonstrate and after the enhancement of the measurement model of tra bility fac indices indicated an appropriate degree of fitness af nprove med on the measurement model. This could be seen from uare value the to 4.786 and the reduction of the degree he normed ratio (CMIN/DF) was acceptable at 2.393 ndard threshold value which of 3. Improvement was also observ ing CFI = 0.98, which indicated an improved fit with the reduction of the value of RMSEA to 0.063 when it was lower than the ex standard fit threshold. lower than 0.8 represented a good Gene model fit. were statistically acceptable (> 0.3) and 0). Table 5.30 presents the most important

correlations between the dimensions and the statistical evidence, including the critical ratio (t) and significance level.

No	Question	Estimate	S.E	C.R	Р	Loading SNV	-
1	Q1	1.179	0.171	6.913	***	.51	
2	Q2	1.000	0.149	6.483	***	.64 .42	
3	Q3	1.137	0.163	6.957	***	.45	
4	Q4	0.905	0.139	6.496	***	.55 .30	

Table 5.30: Estimates and the value (T) of traceability factor

The research questions were tested using simultaneously estimated the equations in the model Klin and effective association was present between the questions of was also reflected through the value of the standard 0.905 to ized 1.179. Meanwhile, the results of p = 0.0ceen 0.139 and 0.171, loading ratio between 0.55 and 0.6 tio of higher than 1.96 indicated the presence of nship between these questions. In this study, the v denoted this category of relationship.

5.9.1.8 Confirmatory Factor Analysis of Wheelesomeness Variable

Among the primary methods of evaluating the Goodness-of-Fit in SEM was the Chi-Square satisfies. According to the model, the acceptable value was lower than the degree of freedom by three times. The initial measurement model demonstrated that the wholesomeness factor was a latent variable of the first order in Figure 5.17.

qu2 qu4 Figure 5.17: Initial of the mean ess factor Provided that the chi-squa y the sample size, the K2/df), was advisable. measurement of the normed 1 chi When the normed ratio app formed with the observed g N/DF, GFI, TLI, PCFI, RMR, data. Furthermore, the ed that the first measurement model NFI) and factor lo ient fit with the data. Therefore, the of institution ned (Hair, 2010) on the model, including the of-fit indices. RM

qu1

qu3 qu4 qu5

qu1

Chi-Square= 131.546

DF=26 CMINDF=5.05 P=.000 TLI=.888 CFI=.919 RMSEA=.038

The adjustment of the initial measurement model Many steps were taken to enhance the measurement model fit, which included the removal of factors with minor factor loading or elaboration percentage and modification indices (Peredaryenko, 2016). The halal assurance system was one of the



No	Description	Fit- indices	Initial indices	Fire-
1	Badness-of fit	Chi-square	131.546	16.639
2	Degree of freedom	DF	26	1
3	Normed ration	CMIN/DF	5.059	1.513
5	Comparative fit index	CFI	0.91	0.99
6	Test of Fornell Larcker	TLI	0.88	0.99
7	Root mean squared error of approximation	RMSEA	1098	0.035

Table 5.31: Indices of the measurement model on wholesomeness factor

The values of the fit indices presented in Tak ariances between the value prior and after the enhancement f the me institutional factors. After the crucial steps taken to upprove most of the fit indices demonstrated an appropria contributed to improvement in the normed ration of of TLI to 0.99 indicated a proper level of fit wi owing that, RMSEA h the amounted to 0.035, which was belo shown in the previous stand segment. Essentially, any RM w 0.8 denoted a positive model fit. Table 5.32 present between the dimensions and the) and significance level. statistical eviden

No	Question	Estimate	S.E	C.R	Р	Loading	SME
1	Q1	1.000	0.077 1	14.312	***	.71	5
2	Q2	1.470	0.074	19.828	***	.98	.95
3	Q4	1.483	0.075	19.802	* * *	.97	.95
4	Q5	1.481	0.072	20.578	***		.94
5	Q2	1.000	0.053	18.427	***	.89	.80
6	Q3	1.065	0.110	9.719	***	1.9	.81
7	Q4	0.989	0.035	28.518	***	.80 \$	ST

Table 5.32: Estimates and the value (T) of wholesomeness factor

Overall, the analysis of the measurement model of vholesomeness factors indicated that all the fit indices exceeded the standard threshold. Furthermore, all the factor loading of items (indicators) were statistically acceptable (> 0.3), while all the leadings were positive (Peredaryenter 2016)

5.9.2 Structural Equation Modellin

The employment of SEM in this research examined the theoretical model and its fitness using the figures gathered from the survey. The SEM analysis consisted of two phases, which are astfollows.

1) The first phase, which involves the examination of models to measure every

2) The second phase, in which the last structural model was constructed, while its fitness was tested with the identified figures.

Specific fit indices were employed to evaluate the model fit in SEM analysis, which are as follows:

- CMIN The minimal number of the difference between the figure and model, which is similar to the chi-square statistic in the "notes for model" segment.
- 2) CMIN/DF The chi-square was separated based on the level of literty. Based on the criterion that the acceptable values were within the 3/1 or 2/1 range, the previous model, which excluded the route from PIQ to COMP Methis study, was suitable (CMIN/DF = 1.65). The representation of < 3 in large samples as (N > 200), < 2.5 in medium-sized samples (100 < N < 200) and < 2 in small samples (N < 100) were adequate.</p>
- 3) GFI The GFI "Goodness of Fit Index" had a similarity to the Soseline Comparisons, resulting in a statistic ranging from 0 to 1, with 1 representing an ideal fit, which was incorporated with the highest likelihood approximation for the absent figure.
- 4) AGFI Representing the Adjusted Goodne's of Fit Index, it involves the levels of liberty present to test the model. This statistic conditioner numbers lower than zero.
- 5) NFI Baseline Comparisons Indicating the Dormed Fit Index, it illustrates the difference between the sufficiently fitting saturated model and inadequately fitting independence model. In this case, 91% of the perfect fit was identified.

6) RFI – Denoting the [Relative Fit Index], it refers to the standardised NFI according to the of or the models, with the numbers close to 1 indicating a proper

S.

EFI – Representing the "Comparative Fit Index", it has a similarity to GFI. Although it normally ranges from 0 to 1, it is not restricted to this range.

RMSEA – RMSEA is a rectified statistic, which penalises model complexity. It is also computed as F0 square root divided by DF. Denoting "Root Mean

Squared Error of Approximation", the RMSEA numbers of .05 or lower were a good fit, while <.1 to >.05 were moderate. However, the values of .1 or were were unacceptable. RMSEA = .00 indicated a perfect fit (Hair et al 2010).

- 9) PCLOSE The "PCLOSE" statistic, which was present with this finding was the possibility of a hypothesis examination highlighting that we RMSEA was not higher than .05. Therefore, a non-significant result of p > .05 was developed as it should not be emphasised that RMSEA was notably higher than .05. Essentially, the RMSEA value of ≤ 0.8 was a positive model fit.
- 10) PCFI Indicating the "Parsimonious Comparative Fit Index", it is a differentiated adjustment of the CFI.
- 11) Chi-square It was employed as the "badness coffit" statistic in SEM notes for the model. Presenting the chi-square statistic, the nonable variations between the model and figure were tested. Accordingly, the significance of the p-value indicated that the model was not a positive sit for the figure.

The formative measures elaborated in this section implied that a latent factor referred to the evaluation using single or several fits of its factors (indicators or questionnaire items). This measurement also determined the definition of the construct (e.g., Blalock, 1964; Edwards and Bagezer, 2000; Jarvis et al., 2003). Notably, significant theoretical and emplical contrasts were present between the reflective and formative constructs of versal, these processes were performed using AMOS software. The aexistub-sections will discuss the findings from the SEM analysis.

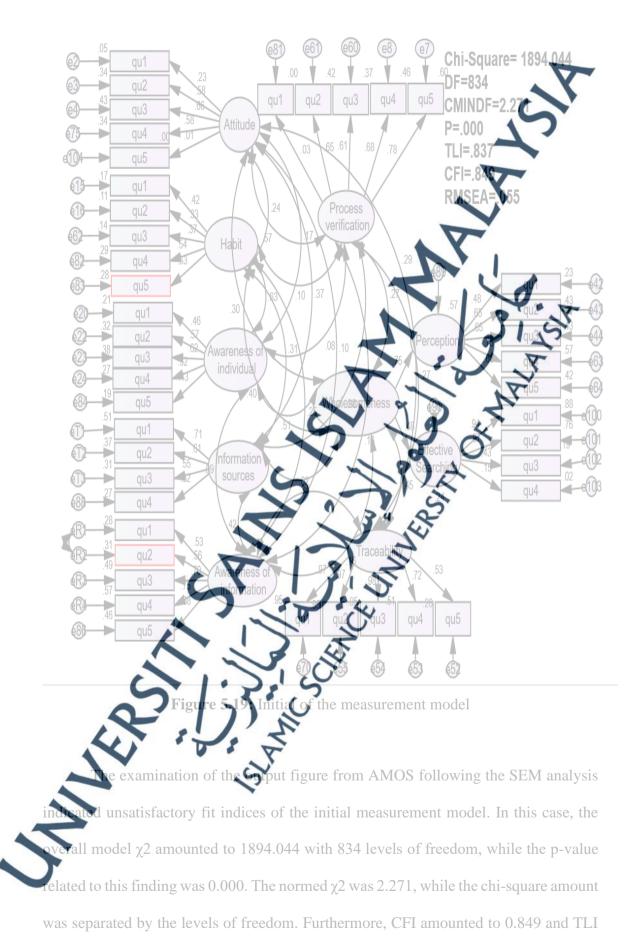
The Measurement Model

The study performs the CFA on the measurement model to offer a confirmatory examination on the performance of the investigated factors to define the latent elements

of interest (Goldstein, 2011). Confirmatory factor analysis provides the statistical analysis, specifically on the goodness-of-fit, and estimates the standard error and computation of significance examinations for factor loadings (Hair et al., 2010).

When the fitting measurement model is not present, a revised model would be required. Although misrepresentation from the initial results of the measurement model testing is proven, re-specification or re-analysis would be crucial (Khre, 2011).

According to Lightning et al. (2013), modifications of an original model are affected by the addition or deletion of one variable or parameter atla time. Howas further emphasised that the standardised factor loadings or standardised regression weights of each item should be determined to guarantee asstrong relationship between factor and variable in a measurement model. The possibility of etiminating an item based on its standardised factor loading or standardised regression weight should amount to a minimum of 0.50 on each item. Figure 5.19 presents the measurement model values.



was 0.87, which was lower than the acceptable value of model fit of 0.90. Therefore, the initial model should be modified.

No	Description	Fit-Indices	Initia	Final	
			indices	indices	
1	Badness of fit	Chi-square	1894 044	894.902	
2	Degree of freedom	DF	834	525	
3	Normed ratio	CMIN/DF		1.705	
4	Model probability	ρ-Value		000	
5	Test of Fornell Larcker	TLI	0.837	▲0.949	
6	Comparative Fit Index	CFI	0.849	0.955	
7	Root mean squared error of	RMSEA	0.055 🔊	1 D.QA	
	approximation			15	

 Table 5.33: Indices of the measurement model

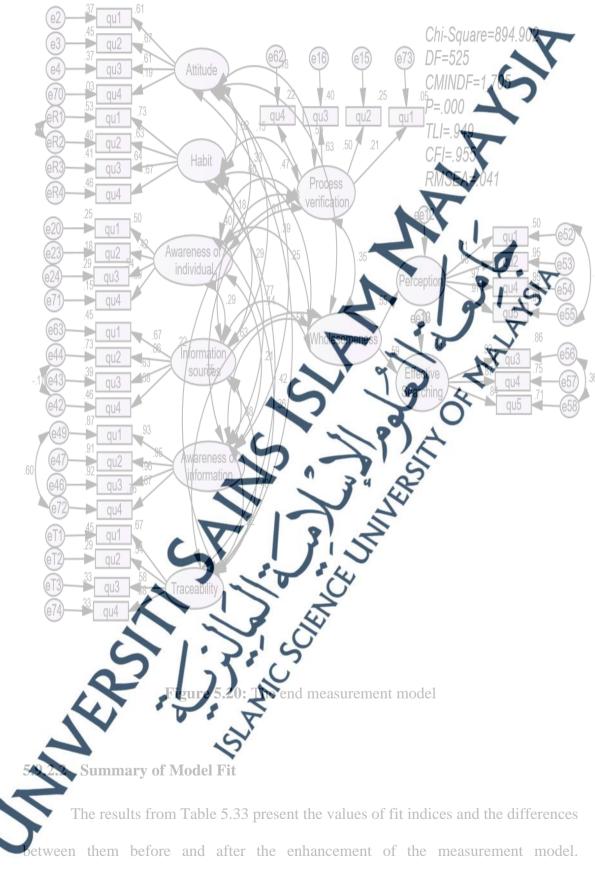
Figure 5.20 presents the ultimate default measurement model after the required

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modification for fit indices was achieved

1×2

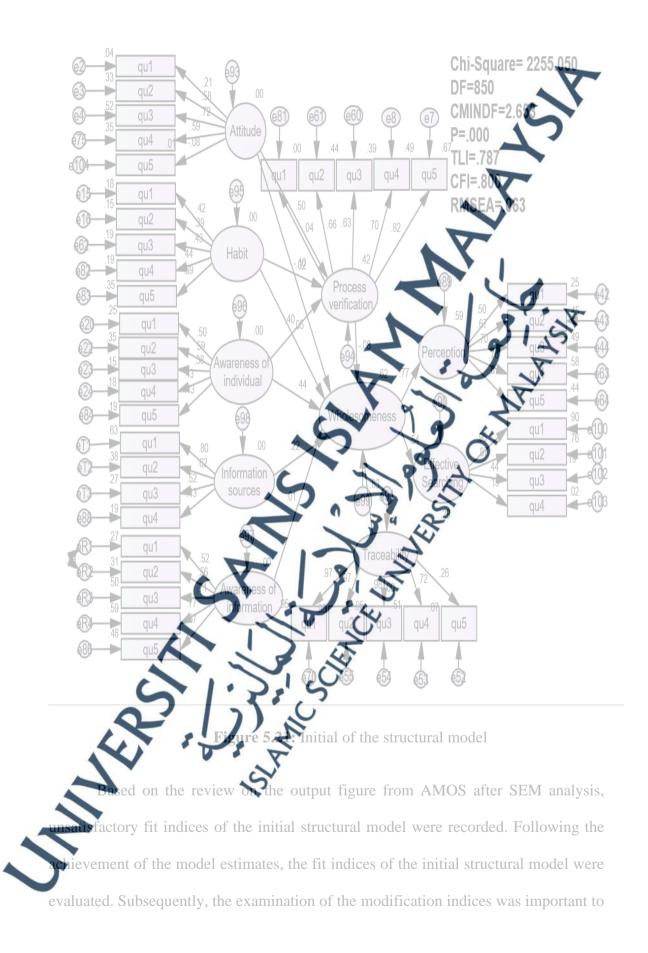


Furthermore, chi-square was significantly lowered to 894.902, while the extent of

freedom was reduced to 525. The normed ratio (CMIN/DF) showed a better value of 1.705 as it was lower than the standard threshold value of 3. Improvement was also observed from other indices as CFI amounted to 0.95. Meanwhile, the TLI value of 0.94 demonstrated an improved degree of fitness with the examined figure. A positive and significant PCLOSE value was also recorded ($\rho \ge 0.000$, $\rho = 0.000$). Provided that a decrease in RMSEA to 0.041 was observed, which was lower than the standard-fit threshold, the SEM result indicated an appropriate fit between the hypothetical model and the sample figure associated with the elements in this study (Jumrah, 2012).

5.9.2.3 Evaluation of the Structural Model

The latent variables in the structural areness of information and individual, information traceability, and wholesomeness) are presented in this segment. could be in terms of direct or indirect impacts and th ersa. Overall, all these ce of relate estimates and the real nature of xogenous and endogenous el. Moreover, the testing of the variables were evaluated, as follows: fit indices of the first structur



enhance the model fit of the structural model, especially to achieve the maximum improvement to the magnitudes of fit indices (Byrne, 2010).

No	Description	Fit-Indices	Initial indices	Final indices
1	Badness of fit	Chi-square	2255,050	1217.809
2	Degree of freedom	DF	850	543
3	Normed ration	CMIN/DF	1653	2.243
4	Model possibility	ρ-Value		000
5	Test of Fornell Larcker	TLI	0.787	▶0.910
6	Comparative Fit Index	CFI	0.800	0.918
7	Root mean squared error of approximation	RMSH	0.063	ST

Table 5.34: Indices of the structural model

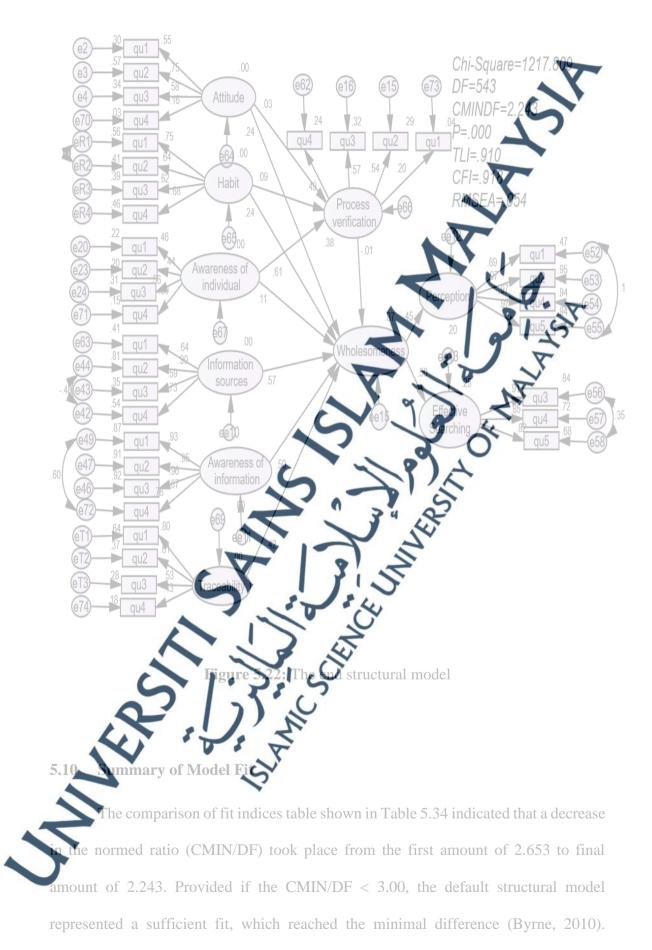
The ultimate default structural model, which followed the crucial adjustment of

J. J.

4

fit indices, is presented in Figure 5.22

1×



Provided that the default structural model was in line with the figure extracted from the survey, the default structural model of this research surpassed the minimal degree of the division with the examined figure. Therefore, the SEM finding implied an appropriate fit between the hypothetical model and sample figure related to research factors (Goldstein, 2011).

The normed ratio (CFI) increased from the initial value of 0.800 to the final value of 0.918. The similar increase took place in TLI from the initial value of 0.787 to the final value of 0.910. Besides, RMSEA was a notable indicator with a value smaller compared to 0.08, which indicated an acceptable approximation error. Provided if the RMSEA score was lower than 0.08, no penalty would be included for model complexity (Zumrah, 2012). The amount of RMSEA in the ultimate erructual model in this research was 0.054, which demonstrated an improved fit of model related to the freedom levels.

5.10.1 Hypotheses Testing Using MOS

This study employed structural equation modeling (SEM) to examine the hypotheses. In the structural model, dependent factor (wholesomeness) was the endogenous variable, while the independent factors (attitude, habit, awareness of information and individual, information sources, process verification, and traceability) were the exogenous variables (itolestein, 2011).

Employed to validate each hypothesis, the critical ratio (CR) was developed by separating an estimation through to standard error. Provided that the CR referred to the standard normal distribution when the sample was large, the CR value of 1.96 or higher and -1.96 or lower indicated a two-sided prominence at 5% of the customary degree. Therefore, the hypothesis was acceptable and could be tested (Teater, 2014). Meanwhile, the finding from SEM output demonstrated significantly standardized and unstandardized regression weights between the latent variables. To illustrate, the SEM output indicated that the variable loadings were statistically appropriate. Table 335 presents the standardized estimates of regression weight of latent factors.

Hypothesis	Latent construct			Bernaltes	S. E	C.R.	Р
H1	Attitude	\rightarrow	Process verification	0.03	0.063	0.4	0.669
H2	Attitude	\rightarrow	Wholesomeness	0.24	0.058	2.06	0.008
H3	Habit	\rightarrow	Process verification	0.09	0.047	1217	0.224
H4	Habit	\rightarrow	Wholesomeness	2.24	0.043	2.78	0.004
H5	Awareness of individual	\rightarrow	Process version	10.0	0.15	4.40	***
H6	Awareness of individual	\rightarrow	Wholesomeness	JII .	O 12	0.683	0.494
H7	Information sources	\rightarrow	Windesomers	1%	0.044	6.032	***
H8	Awareness Of information	~	Wholesomeness	AND OF	0.030	6.048	***
H9	Traceability	R	Wholesomeness	0.42	0.40	4.515	***
H10	Process verification	X	Wholesomeness	-0.01	0.116	0.090	0.928

 Table 5.35: Standardized causal effects of the structural model and hypotheses assessment

The findings from SEM exput desconstrated notable associations ($\rho \le 0.05$) between the latent factors, with the highest association identified between the awareness of individual and process verification of 0.61.

11: A positive relationship is present between the attitude of consumers towards halal food and process verification of halal food information.

Hypothesis H1 predicted the causal correlation between attitude factor and rocess verification. To identify the overall influence of attitude factor and process verification, the critical ratio (CR) amount of the correlation between these two

variables was evaluated. It was found that the C.R value amounted to 0.428 < 1.96. Notably, provided that C.R was not statistically significant at ($\rho \ge 0.05$, $\rho = 0.57$), a negative relationship between attitude factor and process verification was recorded.

Therefore, the hypothesis was not supported. This outcome is in line with several studies (Haque et al., 2015; Bashir, 2019; Omari et al., 2019b) The result shows that individual's attitude toward halal food will leads to a perception and their verification of halal food information. However, a we belief negative attitude towards searching for halal food information. en (200 is perceived as an evaluative structure used to for he use of categories for encoding information, and d recall of attitude-relevant information (Vogel, Bohner, Wan

H2: A positive relationship is present between the attracte of consumers towards halal food and perspective of wholesomeness, resulting in efficacious searching for halal food information.

Hypothesis ation between attitude and of attitude and wholesomeness, the wholesomeness. T ntify th ctors was evaluated. As a result, it was CR number of t elatio \geq 1.96. Provided that the positive value of recorded th at ($\rho \le 0.05$, $\rho = 0.008$), a positive and causal CR n between attitude activities was suggested. Therefore, H2 was d and in line with the results by Khalek et al. (2015) and Domańska & wski (2017), who found that attitude had a favorable impact on the behavioural tempt of halal food consumption. Therefore, it can be argued that the concepts of halal and wholesomeness of the food fulfilling the permissible requirements of the Islamic

rule. It is necessary to educate marketers on halal and wholesomeness (Tayyib) concepts in the aspects of safety, dietary content, and visual appeal of the halal products. That could increase the demand for such products by ensuring that the manufactured products are free of contamination and any haram ingredients upon the preparation, production, and packaging and halal requirement (Ismoyowati, 2015). Those characteristics of food therefore are influencing factors making halal food the most important choice in Muslim consumer's preferences. Accordingly, this study argues that herease the wholesomeness of halal food by linking human attributes and information searching attributes to achieve wholesomeness in halal food products.

H3: A positive relationship is present between the habit of consulting halal food and process verification of halal food information.

Hypothesis H3 predicted the causal correlation between habit factor and process verification. To identify the overall influence of habit factor and process verification, the CR number of the correlation between the two factors was evaluated. As a result, the CR value of $1.217 \le 1.96$ was recorded. Notably if CR did not show a statistical significance at ($\rho \ge 0.05$, $\rho = 0.224$), a negative relationship between habit factor and process verification was indicated. Therefore, the hypothesis was not supported.

N4: A positive correlation between the habit of consuming halal food and perspective of wholesomeness is present, resulting in an efficacious searching of halal food information.

Hypothesis H4 predicted the causal association between habit and wholesomeness. To identify the impact of habit and wholesomeness, the CR number of

the association between these two variables was evaluated. As a result, the CR value of $2.78 \ge 1.96$ was recorded. Notably, provided that the positive value of CR exhibited a statistical significance at ($\rho \le 0.05$, $\rho = 0.004$), a good and causal correlation between habit and wholesomeness was indicated. This result is consistent with study by several prior studies (Omari, Azman & Ismail, 2019a; Amalia, Sosianika & Sunartanto, 2020; Billah, Rahman & Hossain, 2020). Bonne et al. (2007) described that the consumption of halal meat could be perceived as a norm or a habit for several Muslims as this consumption represents themselves.

Therefore, habitual behaviours showed to be an independent predictor of process verification of halal food information. Eating halal food is a part of the Muslim or Islamic identity, indicating that the acceptance of halal products, such as halal meat, could be considered a norm or a habit for some Muslims (ali et al. 2018). Habit can improve individual's acceptance or consumption of products due to their familiarity in it. Besides, habit is an automatic behaviour, which gees beyond an individual's awareness (Billah et al., 2020).

H5: A positive relationship is present between an individual's consciousness and process verification of balal food internation.

Hypothesis His predicted line caused association between an individual's consciousness and process vertication. To identify the overall influence of habit and wholesomeness, the GR of the relationship between these two variables was evaluated. As a result, the CR value of $4.40 \ge 1.96$. Notably, provided that the positive value of Chreschibited a statistical significance at ($\rho \le 0.05$, $\rho = 0.000$), it was suggested that a good and causal correlation between awareness of individual and process verification was present. Therefore, hypothesis H5 as supported and consistent with the findings by Yousoff and Adzharuddin (2017), who found that Muslim families had a significant

degree of consciousness of halal food products. Moreover, Hassan et al. (2020) also stressed the significance of halal consciousness among Muslim consumers. They argue that halal consciousness moderates the relationship between participants' attudes towards Muslim-made products and their perceived behavioural control towards the purchase intention.

This Muslim's consciousness of halal food has a strong luence on their process verification of halal food information. This result is ant for marketers and manufacturers of halal food products in the market. Individuals' ss could be measured by monitoring and perceiving the information on of the in. By understanding and awareness of the halaban s as they could strategize their marketing plans. Muslim vare of the contents and ingredients of their foother op. All Muslim products consumers need to know about an Omari et al., 2019a).

H6: A positive relationship is present between awareness of individual and perspective of wholesomeness resulting in efficacious searching for data regarding halal food.

Hypothesis H6 predicted the causer association between an individual's consciousness and wholesomeness. To identify the overall influence of awareness of individual factor and wholesomeness the CR amount for the association between these two factors was evaluated. As **C** vesult, the CR value of 0.683 < 1.96 was recorded. Notably, if CR did not present a statistical significance at ($\rho \ge 0.05$, $\rho = 0.494$), a negative relationship between awareness individual factor and wholesomeness was present. Therefore, the hypothesis was not supported.

H7: A positive relationship is present between information origin used to seek halal food and perspective of wholesomeness, resulting in efficacious searching for halal food data.

As illustrated in Table 5.35, the Structural Equation Model (SEM) was supported. The hypothesis highlighted a positive association between the origin of information used to search for halal food and the of halal food wholesomeness. The standardized regression weight indicated that were the significant predictors of the halal food what omenes 6.032, p < 0.05). Subsequently, the support for L ations of information sources could be considered on of the level of halal food wholesomeness. Provided ed to 6.032, the value hypothesis was supported and ac cance (P = 0.000). estimates a Additionally, the level of the param with a positive trend, which indicated a significant finding was in line with the research by Liyana eir article titled "How graduate ranteed result", which demonstrated students seek for in nation: discipline could use the internet search that the graduate ital library to search scholarly and reliable engines, O cording to Mannaa, M. (2020), the concepts of wholesomeness (Tayyda is the permissible requirements of the Islamic foods. e, according to this result, concepts of wholesomeness of halal food, such as dietary content, and visual appeal of the halal products will influence efficacious arching for halal food data. In this case, wholesomeness could increase the demand for such products by ensuring that the manufactured products are free of contamination and any haram ingredients upon the preparation, production, and packaging.

H8: A positive relationship is present between awareness of baformation towards halal food and perspective of wholesomeness, resulting in efficacious searching for halal food data.

As illustrated in Table 5.35, the Structural Mode the hypothesis. Therefore, the positive relationship was observed betwee towards halal food and perspective of halal food esomen standardised regression weight implied that determinant of halal food (CR = 6.048, S alue of CR at the level of amounted to 6.048. Therefore, H8 oorted significance (P = .000). Additionall estimates amounted to .50 with a favourable pattern, a signi nce on the awareness of information about halal foo with the study by Leckie et al. (1996) on model n among professionals, namely engineers, health c was found from this research that professionals co mation, which they had a familiarity about, and previous issues or fulfil similar needs. This findings of several studies (Ismoyowati, 2015; halal re 2017; Omari et al., . Therefore, it can be argued that stated that texture, ariation, packaging, quality, affordability, freshness, and price were the encing factors making halal food the most important choice in Muslim consumer's eferences and resulting in efficacious searching for halal food data.

H9: The association between the traceability of halal food information and perception of wholesomeness is positive, resulting in efficacious searching for halal food information.

The structural model analysis in Table 5.35 indicated ve relationship between traceability of halal food information and of halal food wholesomeness (CR = 4.515, SE = 0.40 p < .05). With unting to 4.515, H9 was supported and accepted at a leve Furthermore, the level of the parameter estimate vourable pattern, indicating a significant influence of the and perception of halal food wholeson ive and causal Provid association was indicated from the orted and consistent hyp with the study by Ibrahim and T r article titled, "Review lity System in Halal Food on Knowledge Managemen Industry Supply Chai traceability, which promotes mation along the supply chain, was s the a transparency and e manufactures and premises were found observed. Conce duct packaging or at the premises. to use uni

N10: A positive relationship is present between process verification of halal food information and perspective of wholesomeness, resulting in efficacious searching for halal food data.

Hypothesis H10 predicted causal correlation between process verification factor and wholesomeness. To identify the overall influence of process verification factor and wholesomeness, the CR number for the association between these two factors was evaluated. As a result, the CR value of 0.090 < 1.96 was recorded. Notably, if CR dd not present a statistical significance at ($\rho \ge 0.05$, $\rho = 0.928$), a negative relationship between process verification factor and wholesomeness was present. Therefore, the hypothesis was not supported.

5.11 Summary

This chapter discussed on AMOS Version 22 and Statistical Program for the Social Sciences (SPSS) Version 21, which were employed to perform the analysis. The quantitative study method was adopted to obtain more information and knowledge regarding the target area of interest. Furthermore, the primary model was designed based on theories, which was tested using CFA and SEM.

c profiles of the survey The descriptive statistic participants were presen and standard deviation of the independent factors mean of each independent variable ere ide influencing the behaviour of seeking indicated the e among Malaysian Muslim consumers. information reness of information were identified as the Morec wo independent factors with the lowest mean score ariables. Notabl cess verification and traceability. Overall, the mean results were almost similar are another. Additionally, the R square (regression coefficient) of 0.799 indicated at 79.9% of the variation in the wholesomeness of halal food could be illustrated by attitude, individual's consciousness, the origin of data, process verification, awareness of data, and traceability.

Based on the hypotheses tested using SEM, it was found that hypotheses H2 H4, H5, H7, H8, and H9 were true and supported in the study.

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