



GS1 Canada Enhanced Validation Services



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1. DOCUMENT HISTORY

Version No.	Modifications Made	Author	Date
1.0	Initial version	F. Ghiati	03/27/2009
1.1	<ul style="list-style-type: none"> Add error messages for each business rule. Add error codes for each business rule. Update volume validation applicability by removing consumer items. Short description against other attributes validation removal. Ingredients mandatory for food stable consumer items validation removal. 	A. Liu	08/10/2009
1.1.1	Update Failure/Warning message for Validation #34805	A. Liu	09/03/2009
2.0	<ul style="list-style-type: none"> Update to Failure/Warning messages for Volume Validations for amended validation rules. Update to Appendix 1: Kosher validation. 	A. Liu	05/20/2010

2. DOCUMENT DISTRIBUTION

Name	Role	Signoff

3. INTRODUCTION

1.1 Executive Summary

In the context of the ECCnet Registry, data integrity is defined as complete and accurate information on product Global Trade Item Numbers (GTINs). This is in accordance with to

global standards and industry requirements identified during the development of ECCnet Registry.

GS1 Canada Enhanced Certification Validation Services will:

- Extend levels and types of data validations beyond what is currently completed with the new GTIN verification and certification process.
- Identify errors prior to retailers receiving the data.
- Provide information within a GTIN Discrepancy Report (GDR), ensuring that the data flow is not impacted.
- Provide a consolidated report every time a GTIN is loaded and/or updated.
- Help reduce the risk of incurring cost recovery fees.
- Help ensure that accurate and up-to-date product data is sent to trading partners.

1.2 Purpose

The purpose of this document is to provide users with information on:

- The new set of enhanced business rules
- Attribute validations
- Validation applicability per product type
- Examples for valid and invalid data scenarios

All validation codes of the enhanced validation process are listed in this document. By searching the type of validation error by validation code, the details of the error will be provided in a GTIN Certification Ticket.

For example, as per the Online GTIN Discrepancy Report (GDR) system, the following error is reported as a certification issue; FAILURE (203505) Parent VOLUME and contained child VOLUME must be within 10% of each other.


To find out more about this validation, search code 203505 (see Packaging Validations, page 14 for further details)

1.3 Content

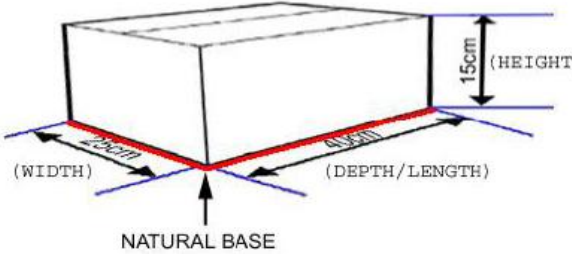
This document is divided into the following five sections:

- Core data validation rules
- Packaging validation rules
- Pharmaceutical validation rules
- Foodservice validation rules
- Appendices

4. CORE DATA VALIDATIONS

Attribute(s) Name		Validation(s)							
Global Trade Item Number (GTIN)		<p>Bar coding for shipping containers: Zero Filler rule When the UPC 12 GTIN is used to identify the unit level and an SCC 14 GTIN is used to identify packaging above the unit level, a 0 (zero) is used to fill Position 2.</p>  <p>1 06 14141 54321 9</p>							
Applicable for product type									
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet		
		X	X	X	X	X	X		
Failure/Warning Message									
Based on the GTIN entered for Parent and Child, the Parent GTIN is incorrect.									
Failure/Warning Validation Code(s)									
186205	189005	189105	189305	189205	147705	189505	189405	147605	184905
147805	187205	187105	186305	186905	185205	185605	185905	188405	188305
147105	188505	188905	188805	188105	187505	187405	187305	187605	146805
147905	187705	148505	148605	148005	147405	147205	147505	145705	184105
145505	146905	146305	147305	148405	146205	146105	148305	145905	148705
148205	148105	183605	184505	136205	203705	208605	204505	204605	204705
208905	203905	204205	152705	125605	136505	136405	136305	136605	207805
134905	135005	134205	217405	135605	136105	216905	163605	217705	133605
133805	217905	134105	218105	218005	213405	213105	206605	212605	213605
215505	215405	216005	215705	214205	213905	215305	215005	127605	132905
132805	133105	133005	133505	133305	133205	208105	127505	209205	186005
Example of valid data					Example of invalid data				
SCC14 10068780000526 linked to UPC 068780000528 is valid SCC14 code. (2 nd digit should always be 0 – zero filler)					SCC14 12068780000526 linked to UPC 068780000528 is not a valid SCC14 code.				
SCC14 18345632145637 linked to EAN 8345632145630, zero filler does not apply)					SCC14 10834563214560 linked to EAN 8345632145630 is not a valid SCC14 code.				

Attribute(s) Name		Validation(s)					
Extended description French Short description French Weight Scale Descriptions French Ingredients French		Should be specified in French Language					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
X	X	X	X	X	X	X	X
Failure/Warning Message							
ENGLISH and FRENCH is available; ensure that the appropriate language is used.							
Failure/Warning Validation Code(s)							
65005 65105 8705 8805 8505 8605							
Example of valid data				Example of invalid data			
Consumer unit loaded with the following extended descriptions: English: Rio Lobos Blue Hurricane Drink French: Rio Lobos Tempete bleue Boisson				Consumer unit loaded with the following extended descriptions: English: 355ml Beaver Buzz Berry-unit French: 355ml Beaver Buzz Berry-unit			

Attribute(s) Name		Validation(s)					
Length Width Unmarked inner length Unmarked inner width		For non-consumer unit product type, the length should be larger than the width (Based on GDSN Package Measurement Rules 1.9.1 Sep-2008 Issue 2)					
							
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
		X	X	X	X	X	X
Failure/Warning Message							
LENGTH must be equal to or more than WIDTH							
Failure/Warning Validation Code(s)							
13305 13505 12705 12905 13605 13105 13805							
Example of valid data				Example of invalid data			
Case loaded with the following dimensions: <ul style="list-style-type: none"> Length: 120 cm Width: 48 cm 				Case loaded with the following dimensions: <ul style="list-style-type: none"> Length: 16 cm Width: 19 cm 			

Attribute(s) Name			Validation(s)				
Pallet tie Pallet tier Packing loose			A minimum of Pallet tie-tier information or Pallet tie-tier indicator should be specified for the case packaging level. Both Pallet tie-tier and Packing loose should not be specified.				
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/Warning Message							
CASES PER LAYER and LAYERS PER PALLET cannot be provided if PACKING loose is checked.							
Failure/Warning Validation Code(s)							
127905 127805							
Example of valid data				Example of invalid data			
A case is loaded with the following packaging information: <ul style="list-style-type: none"> Pallet tie: 25 Pallet tier: 4 				1- A case is loaded with the following packaging information: <ul style="list-style-type: none"> Pallet tie: 25 Pallet tier: 4 Packing loose is checked 2- A case is loaded with no pallet configuration			

Attribute(s) Name		Validation(s)					
Pallet Length Pallet width Case length Case width Pallet tie		Standard pallet – Area: The calculated pallet area should be less than 12444 cm ²					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X		X	X
Failure/Warning Message							
The pallet area should be less than 12444 cm ² . Based on the pallet dimensions, the calculated pallet area is too large.							
Failure/Warning Validation Code(s)							
128205 129105 132505 132205 132105 129605 132705 132405 131905							
Example of valid data				Example of invalid data			
1- A Pallet is loaded as below <ul style="list-style-type: none"> Width: 101.6 cm Length: 121.92 cm Calculated area: $101.6 \times 121.92 = 12386 \text{ cm}^2 < 12444 \text{ cm}^2$				1- A Pallet is loaded as below <ul style="list-style-type: none"> Width: 111.6 cm Length: 121.92 cm Calculated area: $111.6 \times 121.92 = 13606 \text{ cm}^2 > 12444 \text{ cm}^2$			
2- A case is loaded as below: <ul style="list-style-type: none"> Width: 18.567 cm Length: 23.647 cm Pallet tie: 27 Calculated area: $18.567 \times 23.647 \times 27 = 11854 \text{ cm}^2 < 12444 \text{ cm}^2$							

Attribute(s) Name		Validation(s)					
Pallet high Case high Pallet tier		Standard pallet – High: The calculated pallet high should not exceed 198 cm					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X		X	X
Failure/Warning Message							
Based on Case Height and Pallet Tier information, the pallet does not fit within the standard height of 198 cm.							
Failure/Warning Validation Code(s)							
295405 295305 302005 301805 301605 295505 302105 301905 301705							
Example of valid data				Example of invalid data			
1- A Pallet is loaded as below <ul style="list-style-type: none"> High: 93 cm < 198 cm 2- A case is loaded as below: <ul style="list-style-type: none"> High: 23.5 cm Pallet tier: 6 Calculated high: $23.5 \times 6 = 141 \text{ cm} < 198 \text{ cm}$				1- A Pallet is loaded as below <ul style="list-style-type: none"> High: 205 cm > 198 cm 2- A case is loaded as below: <ul style="list-style-type: none"> High: 23.5 cm Pallet tier: 10 Calculated high: $23.5 \times 10 = 235 \text{ cm} > 198 \text{ cm}$			

Attribute(s) Name			Validation(s)				
Unmarked inner length Unmarked inner width Unmarked inner height Unmarked inner volume			Unmarked inner volume should be within +/- 10% of the calculated volume.				
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/Warning Message							
UNMARKED INNER VOLUME is incorrect based on the dimensions specified. The Volume is either too small or inaccurate.							
Failure/Warning Validation Code(s)							
249805 249605 249905 250605 250105 249305							
Example of valid data				Example of invalid data			
Unmarked is loaded as following: <ul style="list-style-type: none"> • Length: 20.117 cm • Width: 6.985 cm • Height: 12.217 cm • Volume: 1727 cc Calculated volume: $20.117 \times 6.985 \times 12.217 = 1716.69 \text{ cc}$ Marge: $1727 / 1716.69 = + 0.6\%$				Unmarked is loaded as following: <ul style="list-style-type: none"> • Length: 20.117 cm • Width: 6.985 cm • Height: 12.217 cm • Volume: 1450 cc Calculated volume: $20.117 \times 6.985 \times 12.217 = 1716.69 \text{ cc}$ Marge: $1727 / 1716.69 = - 16\%$			

Attribute(s) Name		Validation(s)					
Unmarked inner gross weight Case gross weight		Gross weight for case should be greater than gross weight at the unmarked inner level.					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/Warning Message							
CASE GROSS WEIGHT must be greater than UNMARKED INNER GROSS WEIGHT							
Failure/Warning Validation Code(s)							
252805 252705 252605 252905 253205 253105 253005 252105 252005 251905 252205 252505 252405 252305 251505 251805 251705 251605							
Example of valid data				Example of invalid data			
A case is loaded as following: <ul style="list-style-type: none"> Gross weight: 1.596 kg This case contains 2 unmarked inners: <ul style="list-style-type: none"> Unmarked inner gross weight: 0.795 kg Calculated gross weight for the unmarked inner: $0.795 \times 2 = 1.590 \text{ kg} < 1.596 \text{ kg}$				A case is loaded as following: <ul style="list-style-type: none"> Gross weight: 1.596 kg This case contains 2 unmarked inners: <ul style="list-style-type: none"> Unmarked inner gross weight: 0.8 kg Calculated gross weight for the unmarked inner: $0.8 \times 2 = 1.60 \text{ kg} > 1.596 \text{ kg}$			

Attribute(s) Name		Validation(s)					
Juice content		Required for products having sufficient concentration to have different treatment under GST legislation. Specifically, this applies to products within the following ECCnet classification codes: <ul style="list-style-type: none"> • 000042 - JUICES - DRINKS - other • 000043 - JUICES / DRINKS - juice • 000129 - JUICES/DRINKS - liquid (tetra, vegetable juices) • 000130 - JUICES/DRINKS - Powder (Tang, Kool-aid) 					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
	X						
Failure/Warning Message							
JUICE CONTENT % is required for ECCnet Registry Class Codes 000042, 000043, 000129, and 000130.							
Failure/Warning Validation Code(s)							
66905 67005 67105 67205 67305							
Example of valid data				Example of invalid data			
A 100% Pure Pomegranate consumer unit is loaded within ECCnet 000043 - JUICES / DRINKS – juice. The juice content is loaded as 100%				A 100% Pure Pomegranate consumer unit is loaded within ECCnet 000043 - JUICES / DRINKS – juice. The juice content is not loaded.			

Attribute(s) Name		Validation(s)					
GST and HST		The GST and HST information should be populated at the Item level, not at the Case level.					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/Warning Message							
GST and HST should be provided at the consumer unit level.							
Failure/Warning Validation Code(s)							
117005 117205 117305 117405 117505							
Example of valid data				Example of invalid data			
The "GST and HST" is populated at the consumer unit packaging level				The GST and HST is populated at the case packaging level			

5. PACKAGING VALIDATIONS

Attribute(s) Name		Validation(s)					
Total unit/inner pack		A pallet, mixed pallet, display shipper and inner should always have a total unit greater than 1.					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
		X		X	X	X	X
Failure/warning message							
TOTAL UNITS should be greater than one (1).							
Failure/warning code (s)							
16405 16805 16705 16605 16505							
Example of valid data				Example of invalid data			
A case of soft drinks containing 12x500 ml bottles of soft drinks: <ul style="list-style-type: none"> • Size of consumer unit: 500 ml • Total units/Inner pack: 12 				A case of soft drinks containing 12x500 ml bottles of soft drinks: <ul style="list-style-type: none"> • Size of consumer unit: 6 litres • Total units/Inner pack: 1 			

Attribute(s) Name			Validation(s)				
Total unit/inner pack			Total Units at the pallet level should equal Cases Per Layer multiplied by Total Units at the case level multiplied by Layers Per Pallet.				
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X		X	
Failure/warning message							
FAILURE (34805)PALLET TOTAL UNITS must equal the following formula: (CASES PER LAYER x TOTAL UNITS of CASE) x (LAYERS PER PALLET).							
Failure/warning code (s)							
34805							
Example of valid data				Example of invalid data			
Pallet information: <ul style="list-style-type: none"> Pallet has 2160 total consumer units. Case information: <ul style="list-style-type: none"> Pallet tie: 15 Pallet tier: 6 Case contains 24 total consumer units. Calculated total units for a full pallet: <ul style="list-style-type: none"> $15 \times 6 \times 24 = 2160$ 				Pallet information: <ul style="list-style-type: none"> Pallet has 2160 total consumer units. Case information: <ul style="list-style-type: none"> Pallet tie: 1 Pallet tier: 1 Case contains 24 total consumer units. Calculated total units for a full pallet: <ul style="list-style-type: none"> $1 \times 1 \times 24 = 24$ 			

Attribute(s) Name		Validation(s)							
Lower level GTIN		Each product type within the packaging, if linked to a lower level, should follow the rule:							
		Product type	Lower level Product types						
		Pallet	Case, Display shipper, Setpack, Inner pack, consumer unit						
		Mixed pallet	Case, Display shipper, Setpack, Inner pack, consumer unit						
		Case	Display shipper, Setpack, Inner pack, consumer unit						
		Display Shipper	Setpack, Inner pack, consumer unit						
		Setpack	Consumer unit						
		Inner Pack	Consumer unit (Mandatory)						
		Each					Application unit		
Applicable for product type									
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet		
	X	X	X	X	X	X	X		
Failure/warning message									
(Product type A) cannot be listed as the next lower level as (Product type B).									
Failure/warning code (s)									
118105	118305	119205	119705	120205	118505	119305	119805	120305	118605
119405	119905	120405	118805	119505	120005	120505	118905	119605	120105
120605	119105	117705	118205						
Example of valid data				Example of invalid data					
A pallet linked to a case is a valid scenario.				A pallet linked to a mixed pallet is not valid scenario. An inner is loaded as the lowest level in the packaging hierarchy.					

Attribute(s) Name		Validation(s)					
Lower level GTIN		A case containing an unmarked inner cannot be linked to an inner.					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
		X		X			
Failure/warning message							
CASE is marked as containing an UNMARKED INNER cannot list an INNER as the next lower level of packaging							
Failure/warning code (s)							
102205							
Example of valid data				Example of invalid data			
Case with an unmarked inner is linked to a consumer unit.				Case with an unmarked inner is linked to an inner.			

Attribute(s) Name		Validation(s)					
Highest level GTIN		An inner should always be contained within the highest packaging type: Case, Display shipper, pallet, or mixed pallet.					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
		X					
Failure/warning message							
An inner must always be linked to a higher level of packaging.							
Failure/warning code (s)							
130705							
Example of valid data				Example of invalid data			
An inner is linked to a pallet				An inner is loaded as the highest level of the hierarchy			

Attribute(s) Name		Validation(s)							
Volume		Total Child Volume should be within the tolerance -30 % and +0% of Parent volume AND Parent Volume should not be less than contained child VOLUME.							
Applicable for product type									
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet		
		X	X	X	X	X	X		
Failure/warning message									
Total Child Volume should be within the tolerance -30 % and +0% of Parent volume AND Parent Volume should not be less than contained child VOLUME.									
Failure/warning code (s)									
205205	205005	205305	205105	204105	204005	204405	204305	205505	208405
206205	205605	208305	206305	203405	137205	203505	203805	203605	139805
204805	192405	205705	193705	204905	205805	134705	143605	143505	144005
143905	143405	143705	143305	143805	136705	134305	134005	132305	144105
144405	144705	134505	145405	131305	145205	134405	132005	131805	141305
135905	135805	140105	136005	141005	135705	141105	134805	141505	144305
141205	144805	140205	141405	134605	136805	144505	136905	140005	137005
137105	135505	142805	144205	142505	139705	135405	144605	143105	143205
143005	133905	145105	142905	144905	145005	142605	142705		
Example of valid data					Example of invalid data				
<u>Case and contained inners:</u> Example of Total Child Volume should be within the tolerance -30 % and +0% of Parent volume: A Case is loaded with the following volume information: 30560 cc. This case contains three inner units with the following dimensions: <ul style="list-style-type: none"> • Length: 20.07 cm • Width: 28.57 cm • High: 16.31 cm Calculated volume: 20.07 x 28.57 x 16.31 x 3= 28056 cc Tolerance: 28056-30560/30560=-8%					<u>Case and contained inners:</u> Example of Total Child Volume should be within the tolerance -30 % and +0% of Parent volume: A Case is loaded with the following volume information: 49080 cc. This case contains three inner units with the following dimensions: <ul style="list-style-type: none"> • Length: 20.07 cm • Width: 28.57 cm • High: 16.31 cm Calculated volume: 20.07 x 28.57 x 16.31 x 3= 28056 cc Tolerance: 28056-49080/49080=-43%				

<p>Case and contained inners: Example of Parent Volume should not be less than contained child VOLUME:</p> <p>A Case is loaded with the following volume information: 30560 cc.</p> <p>This case contains 3 inner units with the following dimensions:</p> <ul style="list-style-type: none"> • Length: 20.07 cm • Width: 28.57 cm • High: 16.31 cm <p>Calculated volume: 20.07 x 28.57 x 16.31 x 3= 28056 cc</p> <p>Parent Volume > Contained Child Volume</p>	<p>Case and contained inners: Example of Parent Volume should not be less than contained child VOLUME:</p> <p>A Case is loaded with the following volume information: 49080 cc.</p> <p>This case contains 3 inner units with the following dimensions:</p> <ul style="list-style-type: none"> • Length: 38.07 cm • Width: 28.57 cm • High: 16.31 cm <p>Calculated volume: 38.07 x 28.57 x 16.31 x 3= 53219 cc</p> <p>Contained Child Volume > Parent Volume</p>
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Attribute(s) Name		Validation(s)							
Gross weight		Gross weight must be equal or greater than the contained gross weight							
Applicable for product type									
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet		
		X	X	X	X	X	X		
Failure/warning message									
Parent GROSS WEIGHT must be greater than the GROSS WEIGHT of contained items.									
Failure/warning code (s)									
229805	229705	229905	237605	237505	237205	237105	237405	237305	230505
230405	230705	230605	230105	230005	230305	230205	232705	233905	233405
234205	234005	232905	232805	233305	233105	234805	235005	231005	229205
230805	230905	229405	229505	229605					
Example of valid data					Example of invalid data				
A Pallet is loaded with the following gross weight: 512.559 KG.					A Pallet is loaded with the following gross weight: 511 kg.				
This pallet contains 100 cases, each weighs 5.125 kg (gross weight)					This pallet contains 100 cases, each weighs 5.125 kg (gross weight)				
The contained gross weight is:					The contained gross weight is:				
5.125 x 100 = 512.5 kg					5.125 x 100 = 512.5 kg				
512.559 kg is greater than 512.5 kg					512.559 kg is less than 511 kg				

Attribute(s) Name				Validation(s)					
Net weight				Net weight must be equal or greater than the contained net weight					
Applicable for product type									
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet		
		X	X	X	X	X	X		
Failure/warning message									
Parent NET WEIGHT must be greater than the NET WEIGHT of contained items									
Failure/warning code (s)									
248605	248705	238405	238205	238605	238305	239005	239105	239205	238905
238705	238805	239305	238105	239705	238005	243005	239605	237705	237805
239505	243105	248305	243205	248105	248205	239405	243405	243505	246905
243605	242705	238505	242605	242805	247005	248905	248805	237905	249005
247605	247105	247905	247805	241505	241105	241405	241305	240905	242005
241905	241005	241805	248505						
Example of valid data					Example of invalid data				
A Pallet is loaded with the following net weight: 512.559 kg.					A Pallet is loaded with the following net weight: 511 kg.				
This pallet contains 100 cases, each weighs 5.125 kg (net weight)					This pallet contains 100 cases, each weighs 5.125 kg (net weight)				
The contained net weight is:					The contained net weight is: 5.125 x 100 = 512.5 kg				
5.125 x 100 = 512.5 kg					511 kg is less than 512.5 kg.				
512.559 kg is greater than 512.5 kg									

6. CHAIN DRUG DATA VALIDATIONS

Attribute(s) Name		Validation(s)					
Drug Identification Number (DIN) Natural Health Product Number (NPN)		For pharmaceutical products (Rx) or over the counter (OTC) consumer unit and application unit packaging levels, with chain drug as channel of distribution, a minimum of 1 DIN or 1 NPN should be loaded					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
X	X						
Failure/warning message							
A minimum of one DRUG IDENTIFICATION NUMBER (DIN#) or one NATURAL HEALTH PRODUCT NUMBER (NPN#) is required.							
Failure/warning code (s)							
111205 111405 112105 112305 112405 112505							
Example of valid data				Example of invalid data			
An OTC consumer unit within the cough and cold ECCnet classification code is loaded with 1 DIN number: 01955454				An RX consumer unit within the RX ANTISEPTICS ETHIC ECCnet classification code is loaded with no DIN number			

Attribute(s) Name		Validation(s)					
Natural Health Product Number (NPN) Active Ingredient Group (AIG) Number		Products that are designated as natural health products and have an NPN will not have an Active Ingredient Group number assigned to it.					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
X	X						
Failure/warning message							
ACTIVE INGREDIENT GROUP NUMBER and NATURAL HEALTH PRODUCT NUMBER must not be both provided.							
Failure/warning code (s)							
112705 114705 114805 114905 114605 114305 114405 114505 115005 115505 115605 113305 115405 115105 115205 115305 112805 113405 113505 113205 112905 113005 113105 114005 113905 114205 114105 113805 113605 113705 14005							
Example of valid data				Example of invalid data			
An OTC consumer unit within the ANALGESICS				An OTC consumer unit within the ANALGESICS			

ECCnet classification code is loaded with NPN number: 02222116 and has no AIG#.

ECCnet classification code is loaded with NPN number: 02222108 and AIG# set to 0403332007

Attribute(s) Name		Validation(s)							
Active Ingredient Group Number (AIG)		The first portion (2 digits) of the Active ingredient group number identifies the number of active ingredients							
Active Ingredient Name									
Applicable for product type									
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet		
X	X								
Failure/warning message									
Number of Active Ingredient(s) must be equal to the first two (2) digits of Active Ingredient Group Number.									
Failure/warning code (s)									
223505	223405	223305	222905	222805	222705	223205	223105	223005	221005
220905	220805	221305	221205	221105	220305	220205	220105	220705	220505
220405	221405	222305	222205	222105	222605	222505	222405	221705	221605
221505	222005	221905	221805	174005	173905	174105	173605	173505	173805
173705	174705	174605	174905	174805	174305	174205	174505	174405	173405
172205	172305	172505	172105	149205	171705	172605	173105	173205	173305
173005	172705	172805	172905	175005	176605	176705	176805	176305	176405
176505	177205	177305	177405	176905	177005	177105	175405	175505	175605
175105	175205	175305	176005	176105	176205	175705	175805	175905	178705
178805	178905	177805	177905	178005	177505	177605	177705	178405	178505
178605	178105	178205	178305	181905	182005	182105	181505	181705	181805
182505	182605	182705	182205	182305	182405	180405	180505	180605	180005
180205	180305	181205	181305	181405	180805	180905	181005	184605	184705
184805	184205	184305	184405	185405	185505	185705	185005	185105	185305
183105	183205	183305	182805	182905	183005	183805	183905	184005	183405
183505	183705	179005	179105	179205	179705	179805	179905	179305	179405
179605	188705	188605	188205	187905	186405	186505	186105	188005	185805
187005	187805	186605	186705	196105	196205	196305	195805	195905	196005
196705	196805	196905	196405	196505	196605	195705	194805	194905	195005
194505	194605	194705	195405	195505	195605	195105	195205	195305	197005
197105	197205	194405	191805	191905	191605	191705	192205	192305	192005
192105	191505	190705	190805	190505	190605	191305	191405	191105	191205
193605	193805	193405	193505	194105	194205	193905	194005	194305	192705
192805	192505	192605	193205	193305	192905	193005	189605	190405	190105
190205	190005	189705	189905	202405	202505	202605	202005	202205	202305
203205	203305	205905	202705	202805	202905	201705	200605	200705	200805
200305	200405	200505	201205	201305	201505	200905	201005	201105	208705
208805	209005	208005	208205	208505	209105	209305	209405	207905	206505
206705	206805	206005	206105	206405	207305	207405	207605	206905	207005
207205	200205	199105	199205	199405	198705	198805	199005	199905	200005
200105	199505	199605	199705	198605	197405	197505	197605	198305	198405
198505	197705	197805	198105	219805	209505	210205	210305	218305	218205
217805	218605	218505	218405	217205	216705	216605	217605	217505	217305
218705	219605	219505	219405	219905	212005	219705	219005	218905	218805
219305	219205	219105	213305	213205	213005	213805	213705	213505	212505

212305	212205	212905	212805	212705	214005	216205	216105	215205	216505
216405	216305	214405	214305	214105	215105	214705	214605	211705	211805
211905	211605	210705	210805	210905	210405	210505	210605	211305	211405
211505	211005	211105	211205	220005					
Example of valid data					Example of invalid data				
An OTC ANALGESICS consumer unit is assigned 0311776003 as AIG#. The 3 active ingredients are associated to it: <ul style="list-style-type: none"> • Benzalkonium Chloride • Benzocaine • Tannic Acid 					An OTC ANALGESICS consumer unit is assigned 0241781001 as AIG#. There is only 1 active ingredient associated to it: <ul style="list-style-type: none"> • Etidronate Disodium 				

Attribute(s) Name		Validation(s)					
Label Storage Conditions - French Colour Description - French Flavour Description – French		Should be specified in French.					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
X	X						
Failure/warning message							
<ul style="list-style-type: none"> - LABEL STORAGE CONDITIONS - ENGLISH and LABEL STORAGE CONDITIONS - FRENCH - Ensure appropriate language is used. - COLOUR DESCRIPTION ENGLISH and COLOUR DESCRIPTION FRENCH - Ensure appropriate language is used. - FLAVOUR DESCRIPTION ENGLISH and FLAVOUR DESCRIPTION FRENCH - Ensure appropriate language is used. 							
Failure/warning code (s)							
8405 8305 9905							
Example of valid data				Example of invalid data			
An RX DIABETES THERAPY consumer unit has French colour set to “Blanc”				An RX DIABETES THERAPY consumer unit has French colour set to “White”			

Attribute(s) Name			Validation(s)				
Temperature Control Range Temperature Control Range - Other (MIN) Temperature Control Range - Other (MAX) Temperature Control Range - Other (UOM)			If Temperature Control Range specifies a temperature range from the list of values: <ul style="list-style-type: none"> • Not Specified (TCNSP) • Frozen (-25 to -20°C) (TCFRZ) • Refrigerated (2 to 8°C) (TCREF) • Cool (8 to 15°C) (TCCOL) • Room temperature (15 to 30°C) (TCRMT) • Controlled room temperature (20 to 25°C) (TCCRT) • Excessive heat (>40°C) (TCEXH) Then the Temperature control Range – other (min-max-UOM) should not be populated				
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
	X						
Failure/warning message							
TEMPERATURE CONTROL RANGE OTHER (MIN) should only be entered if OTHER has been selected in TEMPERATURE CONTROL RANGE.							
Failure/warning code (s)							
8105 128405							
Example of valid data				Example of invalid data			
An OTC laxative consumer unit has the Temperature Control Range set to Not Specified (TCNSP), Temperature control Range – other (min-max-UOM) are not specified.				An OTC Diabetic consumer unit has the Temperature Control Range set to Room temperature (15 to 30°C), and also: <ul style="list-style-type: none"> • Temperature Control Range - Other (MIN)= 4 • Temperature Control Range - Other (MAX)= 30 • Temperature Control Range - Other (UOM)= °C 			

7. FOODSERVICE DATA VALIDATIONS

Attribute(s) Name		Validation(s)					
Kosher Ingredients		Compare Kosher against Ingredients. See Appendix 1 for ingredients that should not be used for products classified as Kosher.					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/warning message							
KOSHER is incorrect against INGREDIENTS. Please refer to GS1 Canada technical documents for questionable Kosher Ingredients.							
Failure/warning code (s)							
63505 63605							
Example of valid data				Example of invalid data			
<p>A Kosher foodservice product has the following list of ingredients:</p> <p>“Beef Sirloin, Water, Modified Corn Starch, Sodium Phosphate, Dextrose, Salt, Hydrolyzed Vegetable Protein (Hydrolyzed Soy and Corn Protein, Salt)”</p>				<p>A Kosher foodservice product has the following list of ingredients:</p> <p>Dough Ingredients, semolina flour, whole eggs and water. Filling ingredients, sausage (pork, salt, water, spices), Spinach, Parmesan (pasteurized part-skim milk, salt, enzymes and cellulose (an anti caking agent), breadcrumbs (bleached wheat flour, yeast, sugar, salt), Whole egg, fresh garlic and black pepper.</p>			

Attribute(s) Name		Validation(s)					
Calculation size Protein Carbohydrates Total Dietary Fibre Total Sugar Total Fat Saturated Fat Transfatty Acids		Each of the following nutritional information cannot be greater than Calculation size: <ul style="list-style-type: none"> • Protein • Carbohydrates • Total Dietary Fibre • Total Sugar • Total Fat • Saturated Fat • Transfatty Acids 					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/warning message							
<ul style="list-style-type: none"> - PROTEIN should not be greater than the CALCULATION SIZE - CARBOHYDRATES should not be greater than the CALCULATION SIZE - TOTAL DIETARY FIBRE should not be greater than the CALCULATION SIZE - TOTAL SUGAR should not be greater than the CALCULATION SIZE - TOTAL FAT should not be greater than the CALCULATION SIZE - SATURATED FAT should not be greater than the CALCULATION SIZE - TRANSFATTY ACIDS should not be greater than the CALCULATION SIZE 							
Failure/warning code (s)							
15605	22705	22605	15505	16205	23105	22805	15905
23005	16005	22905	23205	16305			16105
Example of valid data				Example of invalid data			
The calculation size is set to 50 grams and the total sugar is set to 14 grams				The calculation size is set to 42 grams and the total fat is set to 50 grams			

Attribute(s) Name		Validation(s)					
Calculation size Protein Carbohydrates Saturated Fat Transfatty Acids		Sum of the following nutritional information cannot be greater than Calculation size: <ul style="list-style-type: none"> • Protein • Carbohydrates • Saturated Fat • Transfatty Acids 					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/warning message							
The sum of all nutrients cannot be greater than the CALCULATION SIZE.							
Failure/warning code (s)							
16905 23305							
Example of valid data				Example of invalid data			
The calculation size is set to 50 grams with: <ul style="list-style-type: none"> • Protein= 4 gr • Carbohydrates= 31 gr • Saturated Fat= 8 gr • Transfatty Acids= 0.2 gr $4 + 31 + 8 + 0.2 = 43.2 \text{ grams} < 50 \text{ grams}$				The calculation size is set to 100 grams with: <ul style="list-style-type: none"> • Protein= 24 gr • Carbohydrates= 60 gr • Saturated Fat= 18 gr • Transfatty Acids= 5 gr $24 + 60 + 18 + 5 = 107 \text{ grams} > 100 \text{ grams}$			

Attribute(s) Name		Validation(s)					
Carbohydrates Total Sugar		Carbohydrates cannot be less than Total Sugar					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/warning message							
CARBOHYDRATES should not be less than TOTAL SUGAR.							
Failure/warning code (s)							
15705							
Example of valid data				Example of invalid data			
A product is loaded with the following information: <ul style="list-style-type: none"> • Carbohydrates= 17.82 gr • Total Sugar = 10.60 gr 17.82 is greater than 10.60				A product is loaded with the following information: <ul style="list-style-type: none"> • Carbohydrates= 50.8 gr • Total Sugar = 51.4 gr 50.8 is less than 51.4			

Attribute(s) Name		Validation(s)					
Total Fat Saturated Fat Transfatty Acid		Total Fat cannot be less than Saturated Fat or Transfatty Acid or the sum of both					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/warning message							
<ul style="list-style-type: none"> - TOTAL FAT should not be less than SATURATED FAT - TOTAL FAT should not be less than TRANSFATTY ACID - TOTAL FAT should not be less than TRANSFATTY ACID and SATURATED FAT 							
Failure/warning code (s)							
17005 17105 17205							
Example of valid data				Example of invalid data			
A product is loaded with the following information: <ul style="list-style-type: none"> • Total Fat = 13 gr • Saturated Fat = 1.99 gr • Transfatty Acid = 0.02 gr 13 is greater than (1.99 + 0.02)				A product is loaded with the following information: <ul style="list-style-type: none"> • Total Fat = 0.5 gr • Saturated Fat = 0.4 gr • Transfatty Acid = 0.3 gr 0.5 is less than (0.4 + 0.3)			

Attribute(s) Name		Validation(s)							
General Description General Description (French) Product Name Product Name (French) Product Code Benefits Benefits (French) Preparation and Cooking Suggestions Preparation and Cooking Suggestions (French) Serving Suggestions Serving Suggestions (French) Package and Storage Package and Storage (French)		These marketing attributes should be loaded for Foodservice products: <ul style="list-style-type: none"> • General Description • General Description (French) • Product Name • Product Name (French) • Product Code • Benefits • Benefits (French) • Preparation and Cooking Suggestions • Preparation and Cooking Suggestions (French) • Serving Suggestions • Serving Suggestions (French) • Package and Storage • Package and Storage (French) 							
Applicable for product type									
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet		
				X					
Failure/warning message									
(Attribute) must be provided.									
Failure/warning code (s)									
122305	122205	9205	121505	121405	9405	123005	122905	9105	122605
122405	121905	8905	121805	121605	9305	122805	122705	9005	
Example of valid data					Example of invalid data				
A case is loaded with all marketing attributes					A foodservice case is loaded with missing Benefits				

Attribute(s) Name		Validation(s)					
General Description (French) Product Name (French) Benefits (French) Preparation and Cooking Suggestions (French) Serving Suggestions (French) Package and Storage (French)		These French marketing attributes should be loaded for Foodservice products in French language: <ul style="list-style-type: none"> • General Description (French) • Product Name (French) • Benefits (French) • Preparation and Cooking Suggestions (French) • Serving Suggestions (French) • Package and Storage (French) 					
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/warning message							
(Attribute English) and (Attribute French) - Ensure appropriate language is used.							
Failure/warning code (s)							
122305 121505 123005 122605 121805 122805							
Example of valid data				Example of invalid data			
For a foodservice case, all attributes listed above are loaded in French language.				For a foodservice case, Benefits French is loaded in English.			

Attribute(s) Name		Validation(s)						
Kosher Calculation Size Calories Protein Carbohydrates Total Dietary Fibre Total Sugar Total Fat Saturated Fat Transfatty Acids Cholesterol Vitamin A Vitamin C Calcium Iron Sodium		These nutritional attributes should be loaded for foodservice products: <ul style="list-style-type: none"> • Kosher • Calculation Size • Calories • Protein • Carbohydrates • Total Dietary Fibre • Total Sugar • Total Fat • Saturated Fat • Transfatty Acids • Cholesterol • Vitamin A • Vitamin C • Calcium • Iron • Sodium 						
Applicable for product type								
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet	
				X				
Failure/warning message								
(Attributes) must be provided.								
Failure/warning code (s)								
125205	123105	123305	124405	124905	125305	123205	123705	124805
125405	124505	124705	124605	123905	125005	125105		
Example of valid data				Example of invalid data				
For a foodservice case, all attributes listed above are loaded.				For a foodservice case, Total Fat is not loaded.				

Attribute(s) Name			Validation(s)				
Ingredients Ingredients (French) For more information For more information (French)			These other information should be loaded for foodservice cases: <ul style="list-style-type: none"> • Ingredients • Ingredients (French) • For more information • For more information (French) 				
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/warning message							
(Attributes) must be provided.							
Failure/warning code (s)							
65005 65105 124105 124005 9505 124305 124205							
Example of valid data				Example of invalid data			
For a foodservice case, all attributes listed above are loaded.				For a foodservice case, "Ingredients" is not loaded.			

Attribute(s) Name			Validation(s)				
Ingredients (French) For more information (French)			The following fields should be loaded for foodservice cases in French language: <ul style="list-style-type: none"> • Ingredients (French) • For more information (French) 				
Applicable for product type							
Application unit	Consumer unit	Inner Pack	Set Pack	Case	Displayer	Pallet	Mixed pallet
				X			
Failure/warning message							
(Attribute English) & (Attribute French) - Ensure appropriate language is used.							
Failure/warning code (s)							
65005 65105 124105 9505 124305							
Example of valid data				Example of invalid data			
For a foodservice case, all attributes listed above are loaded in French.				For a foodservice case, Ingredients (French) is loaded in English.			

APPENDIX 1: KOSHER VALIDATION

The rule will show a failure or warning if Kosher is coded and Ingredients contain any of the values listed	Error
Crab	FAILURE
Crabs	FAILURE
Prawn	FAILURE
Prawns	FAILURE
eel	FAILURE
Eels	FAILURE
Shellfish	FAILURE
Squid	FAILURE
Cochineal	FAILURE
Bone phosphate	FAILURE
Shellac	FAILURE
Spermaceti	FAILURE
Pork	FAILURE
Ham	FAILURE
Bacon	FAILURE
Rennin	WARNING
Rennet Pepsin	WARNING
Lipase	WARNING
Trypsin	WARNING
Glycerol	WARNING
Polyoxyethylene (8) stearate	WARNING
Polyoxyethylene (40) stearate	WARNING
Polyoxyethylene (20) sorbitan monolaurate	WARNING
Polyoxyethylene-20-sorbitan mono-oleate	WARNING
Polysorbate 80	WARNING
Polyoxyethylene (20) sorbitan monopalmitate	WARNING
Polyoxyethylene (20) sorbitan monostearate	WARNING
Polyoxyethylene (20) sorbitan tristearate	WARNING
Fatty acid salts	WARNING
Sodium salts of fatty acids	WARNING
Potassium salts of fatty acids	WARNING
Calcium salts of fatty acids	WARNING
Magnesium salts of fatty acids	WARNING

The rule will show a failure or warning if Kosher is coded and Ingredients contain any of the values listed	Error
Sugar esters of fatty acids	WARNING
Sucroglycerides	WARNING
Polyglycerol esters of fatty acids	WARNING
Polyglycerol polyricinoleate	WARNING
Propyleneglycol esters of fatty acids	WARNING
Lactylated fatty acid esters of glycerol and propane-1	WARNING
Sodium stearoyl lactate	WARNING
Calcium stearoyl lactat	WARNING
Stearyl tartrate	WARNING
Sorbitane mono stearate	WARNING
Sorbitane tri stearate	WARNING
Sorbitane mono laurate	WARNING
Sorbitane mono oleate	WARNING
Sorbitane mono palmitate	WARNING
Stearic acid	WARNING
Magnesium stearate	WARNING
Casein	WARNING
Caseinates	WARNING
Wine	WARNING
Brandy	WARNING
Monoacetin	WARNING
Glycerol triacetate	WARNING
Triacetin	WARNING



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