

## APPENDIX 6

### GUIDELINE ON REGISTRATION OF HEALTH SUPPLEMENTS

#### IMPORTANT NOTES:

This guideline will serve as an additional reference guide for the registration of health supplement products, which consist of pharmaceutical active ingredients for human use as well as ingredients derived from natural sources.

Applicants are advised to refer to main **Drug Registration Guidance Document** for the common requirements for the preparation of a well-structured dossier application to be submitted for product registration.

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## **1. DEFINITION**

### **1.1 HEALTH SUPPLEMENT (HS)**

Health Supplement (HS) refers to any product used to supplement a diet and to maintain, enhance and improve the health function of human body. It is presented in small unit dosage forms (to be administered) such as capsules, tablets, powder, liquids and shall not include any sterile preparations (i.e. injectable, eye drops). It may contain one or more, or the following combinations:

- i) Vitamins, minerals, amino acids, fatty acids, enzymes, probiotics, and other bioactive substances;
- ii) Substances derived from \*natural sources, including animal, mineral and botanical materials in the forms of extracts, isolates, concentrates, metabolite;
- iii) Synthetic sources of ingredients mentioned in (i) and (ii) may only be used where the safety of these has been proven.

### **1.2 INDICATIONS**

- i) Used as a Health Supplement;
- ii) Vitamin and mineral supplements for pregnant and lactating women.

### **1.3 ROUTE OF ADMINISTRATION**

Oral

### **1.4 EXCLUSION FROM HEALTH SUPPLEMENTS:**

Health Supplements shall NOT include:

- i) Any product as a sole item of a meal;
- ii) Any injectable and sterile preparation;
- iii) Any cells, tissues, organs or any substance derived from the human body;
- iv) Any substance listed in the Schedule of the Poison Act;
- v) Any other route of administration other than the oral route.

### **1.5 EXEMPTION FOR REGISTRATION**

Extemporaneous preparations prepared and given directly to the patient by a healthcare practitioner during the course of treatment are exempted.

## 2. ACTIVE INGREDIENTS

Listed active ingredients can be checked at the NPRA website <https://www.npra.gov.my/> using Product Search.

### Classification of products containing Glucosamine, Chondroitin and Methylsulphonylmethane (MSM)

No.	Product	Product Category	Route of Evaluation	Condition on Product Indication	Remark	
1.	Products containing Glucosamine	As single active ingredient	OTC	Full evaluation	As adjuvant therapy for osteoarthritis	Products containing glucosamine in combination with other health supplement ingredients are only allowed to be registered for therapeutic purposes and NOT allowed to be registered as Health Supplement Product.
		As combination with Chondroitin and/ or MSM	OTC	Full evaluation	As adjuvant therapy for osteoarthritis	
2.	Products containing Chondroitin	As single ingredient OR In combination with other supplement ingredients	Health supplement	Abridged Evaluation	No therapeutic claims are allowed	-
3.	Products containing MSM	As single ingredient OR In combination	Health supplement	Abridged Evaluation	No therapeutic claims are allowed	-

No.	Product	Product Category	Route of Evaluation	Condition on Product Indication	Remark
	with other supplement ingredients				
	As combination with Chondroitin	Health supplement	Abridged Evaluation	No therapeutic claims are allowed	-

References: Circulars

- (i) [Bil \(66\) dlm BPFK/02/5/1.3](#)  
*Produk yang Mengandung Glucosamine dan Chondroitin* (14 November 2006)
- (ii) [Bil. \(20\) dlm.BPFK/PPP/01/03](#)  
*Produk yang mengandung Glucosamine, Chondroitin dan Methylsulfonylmethane (MSM)* (31 December 2008)

### 3. MAXIMUM DAILY LEVELS OF VITAMINS AND MINERALS FOR ADULTS ALLOWED IN HEALTH SUPPLEMENTS

NO.	VITAMINS & MINERALS	UPPER DAILY LIMIT
1.	Vitamin A	5000 IU
2.	Vitamin D	1000 IU
3.	Vitamin E	800 IU
4.	Vitamin K (K1 and K2) <sup>1</sup>	0.12mg
5.	Vitamin B1 (Thiamine)	100 mg
6.	Vitamin B2 (Riboflavine)	40 mg
7.	Vitamin B5 (Panthothenic Acid)	200 mg
8.	Vitamin B6 (Pyridoxine)	100 mg
9.	Vitamin B12 (Cyanocobalamin)	0.6 mg
10.	Vitamin C (Ascorbic Acid)	1000 mg
11.	Folic Acid	0.9 mg
12.	Nicotinic Acid	15 mg
13.	Niacinamide (Nicotinamide)	450 mg
14.	Biotin	0.9 mg

NO.	VITAMINS & MINERALS	UPPER DAILY LIMIT
15.	Boron	6.4 mg
16.	Calcium	1200 mg
17.	Chromium	0.5 mg
18.	Copper	2 mg
19.	Iodine	0.3 mg
20.	Iron <sup>2</sup>	20 mg
21.	Magnesium	350 mg
22.	Manganese	3.5 mg
23.	Molybdenum	0.36 mg
24.	Phosphorus	800 mg
25.	Selenium	0.2 mg
26.	Zinc	15 mg

**Note:**

- Vitamin K (K1 and K2) is restricted only for combination with other vitamins and minerals in oral preparations. Vitamin K (K1 and K2) as a single ingredient in an oral preparation is not allowed.*
- For pre and antenatal use, as part of a multivitamin and mineral preparation, levels higher than the 20mg limit established for adults may be permitted at the discretion of the Authority.*
- Any form of fluoride as an ingredient is not permitted in formulation of health supplement products.*

## 4. HEALTH SUPPLEMENT CLAIMS

### 4.1 CONDITIONS

All claims made for health supplements (HS) shall:

- be consistent with the definition of HS;
- enable consumers to make an informed choice regarding products;
- not be misleading or false;
- support the safe, beneficial and appropriate use of the product;
- maintain the level of scientific evidence proportional to the type of claims;
- be for health maintenance and promotion purpose only;

- vii) not be medicinal or therapeutic in nature, such as implied for treatment, cure or prevention of disease.

## 4.2 TYPES AND EVIDENCE OF CLAIMS

A health supplement claim refers to the beneficial effects of consuming HS to promote good health and well-being (physical and mental) by providing nutrition, enhancing body structure/ function, relieving physiological discomfort and/or reducing the risk of health related conditions or diseases.

Types of HS claims are:

- General or Nutritional Claims ([Table 1](#));
- Functional Claims (medium) ([Table 2](#));
- Disease Risk Reduction Claims (high) ([Table 3](#)).

For a HS product making a General or Functional Claim on vitamin(s) and/or mineral(s), it must contain a minimum of 15% of the Codex Nutrient Reference Value (NRV) per daily dose of the vitamin(s) and/or mineral(s). Other ingredients must be substantiated by supporting evidence.

For example, if the vitamin content is less than 15% NRV, the specific claim for this vitamin is not allowed unless there is evidence to support the claimed effect below this value.

For a HS product with Disease Risk Reduction Claim, it must be substantiated by supporting evidences.



**Table 1: General or Nutritional Claims**

Level of claim	Definition	Examples/ Wording of claim	Criteria	Evidence to substantiate HS claims
General or Nutritional Claims	<ul style="list-style-type: none"> <li>▪ General Health Maintenance</li> <li>▪ Benefits derived from supplementation beyond normal dietary intake</li> </ul>	<ul style="list-style-type: none"> <li>▪ Supports healthy growth and development</li> <li>▪ Nourishes the body</li> <li>▪ Relieves general tiredness, weakness</li> <li>▪ Helps to maintain good health</li> <li>▪ For energy and vitality</li> <li>▪ For strengthening the body</li> </ul>	<ul style="list-style-type: none"> <li>▪ Is in line with established nutrition knowledge in reference texts</li> <li>▪ Is related to general well-being in line with scientific knowledge</li> <li>▪ Claim does not refer to the structure and/or function of the human body</li> <li>▪ In accordance to HS principles and practice in Malaysia</li> </ul>	<p><b>1 or more of the following evidences:</b></p> <ul style="list-style-type: none"> <li>i) Standard reference e.g. reference textbooks, pharmacopoeia, monographs</li> <li>ii) Recommendations on usage from reference regulatory authorities or reference organisations</li> </ul>

Please refer to 4.4 Illustrative Substantiation Evidence List for the list of acceptable references, organisations and authorities.

**Table 2: Functional Claims (medium)**

Claims must be adequately substantiated through ingredient-based evidence, and when necessary, through product-based evidence.

Types of HS claim	Definition	Examples/ Wording of claims	Criteria	Evidence to substantiate HS Claims
Functional Claims (medium)	<ul style="list-style-type: none"> <li>▪ Maintains or enhances the structure or function of the human body, excluding disease-related claims</li> </ul>	<p>Acceptable claims based on the single ingredient</p> <p>e.g.</p> <ul style="list-style-type: none"> <li>▪ Vitamin A helps to maintain growth, vision and tissue development</li> <li>▪ Vitamin D helps in normal development and maintenance of bones and teeth.</li> <li>▪ Chondroitin helps to promote healthy joints</li> </ul>	<p>For claims on established nutrients and ingredients such as vitamins &amp; minerals with daily recommended values</p> <ul style="list-style-type: none"> <li>▪ Meet the conditions for nutrient function claims as set by the Authority</li> <li>▪ Claims have consistent scientific support according to scientific review and evaluation</li> <li>▪ In accordance to HS principles and practice in Malaysia</li> </ul>	<p><b>1 or more of the following evidence:</b></p> <ul style="list-style-type: none"> <li>i) Standard reference e.g. reference textbooks, pharmacopoeia, monographs</li> <li>ii) Recommendations on usage from reference regulatory authorities or reference organisations</li> <li>iii) Good quality scientific evidence from human observational studies (refer to ASEAN Guidelines on efficacy data requirement) <b>(only in the event that human experimental study is not ethical, animal studies will be accepted together with epidemiological studies or other scientific literature and documented traditional use)</b></li> <li>iv) Peer-reviewed scientific data or meta-analysis</li> </ul>

Refer to 4.4 Illustrative Substantiation Evidence List for the list of acceptable references, organisations and authorities.

**Table 3: Disease risk reduction (high)**

Types of HS claim	Definition	Examples/ Wording of claims	Criteria	Evidence to substantiate HS Claims
Disease risk reduction	<ul style="list-style-type: none"> <li>▪ Significantly altering or reducing a risk factor of a disease or health related condition.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Helps to reduce risk of osteoporosis by strengthening bone</li> <li>▪ Helps to reduce the risk of dyslipidaemia</li> </ul>	<ul style="list-style-type: none"> <li>▪ The relationship between the HS ingredient or product and disease risk reduction is supported by consistent scientific evidence</li> <li>▪ Documented in authoritative reference texts</li> <li>▪ Recognised by the Authority reference or international organisations or regulatory authorities</li> <li>▪ Adheres to the key principles of HS claims</li> </ul>	<p><b>Compulsory evidence:</b></p> <ul style="list-style-type: none"> <li>i) Scientific evidence from human intervention study on ingredient and/or product</li> <li>ii) Toxicological study (chronic)</li> <li>iii) Pharmacological study</li> </ul> <p><b>At least 1 additional evidence:</b></p> <ul style="list-style-type: none"> <li>i) Standard reference e.g. reference textbooks, pharmacopoeia, monographs etc.</li> <li>ii) Recommendations on usage from reference regulatory authorities or reference organisations</li> <li>iii) Evidence from published scientific reviews or meta-analysis</li> <li>iv) Report prepared by expert committees/ expert opinion (subject to the Authority approval)</li> </ul>

Refer to 4.4 Illustrative Substantiation Evidence List for the list of acceptable references, organisations and authorities

### 4.3 CLAIMS SUBSTANTIATION

Claims must be in line with the respective HS principles and supported by adequate evidence. To reflect the all available usage evidence (including relevant scientific evidence), the evidence shall be summarized as part of the substantiation document for the claim presented in the **Table 4** below:

**Note:** Evidence not summarised and presented in the above format will not be further evaluated

Indication / claim	Product/ Ingredient studied	Dosage and administration route	Duration of treatment	Type of evidence (scientific evidence)	Study design	Study population	Summary of findings	Limitations of the study	Source of evidence i) Author ii) Title iii) Publication details iv) Year v) Type (text,...)

#### 4.4 ILLUSTRATIVE SUBSTANTIATION EVIDENCE LIST

##### Reference texts

- a. Martindale, latest edition. The Complete Drug. Pharmaceutical Press, 2009.
- b. The ABC Clinical Guide to Herbs. American Botanical Council
- c. WHO Monographs on Selected Medicinal Plants
- d. British Pharmacopoeia
- e. United States Pharmacopoeia
- f. Indian Pharmacopoeia
- g. Chinese Pharmacopoeia
- h. Natural Standards ([www.naturalstandard.com](http://www.naturalstandard.com))
- i. Office of Dietary Supplements, National Institutes of Health - Dietary Supplement Fact Sheets (<https://ods.od.nih.gov/factsheets/list-all/>)

##### Organisations

- a. American Botanical Council ([www.herbalgram.org](http://www.herbalgram.org)).
- b. American Nutraceutical Association
- c. CODEX Alimentarius
- d. Global Information Hub for Integrated Medicine (<http://www.globinmed.com>)
- e. National Centre for Complementary and Alternative Medicine (<http://nccam.nih.gov/>)
- f. Office of Dietary Supplements, National Institutes of Health (USA) (<http://ods.od.nih.gov>)

##### Reference regulatory authorities

- a. Australia TGA
- b. Chinese Health Authority on Chinese medicinal herbs
- c. European Commission
- d. Health Canada
- e. United States FDA

##### **Notes:**

1. *This list is not meant to be exhaustive and will be reviewed from time to time.*
2. *The Authority will conduct a detailed evaluation of the evidence included in the report to ensure that the health claim is substantiated.*
3. *The Authority will consider review other than those listed above, if the standards of evidence are consistent with those of the Authority.*
4. *All references must be current.*

## 5. SPECIFIC DOSSIER REQUIREMENT FOR REGISTRATION OF HEALTH SUPPLEMENTS

### PRODUCT VALIDATION

#### 5.1 Product Name

- The product name may include product name, dosage form and strength (e.g. XYZ Capsule 500mg)
- Dosage form and strength of product are required to be part of the product name to allow for multiple dosage forms (e.g. tablet, capsule) and strengths (e.g. 200mg and 400mg) for any particular named (proprietary or generic) product.
- If a registered product name is found to be similar to another registered product, NPRA reserves the rights to request for the change in the product name.
- Product with more than one (1) active ingredient should not include the strength of active ingredients in the product name.
- The product name may include the brand name or trademark name, if applicable.
- Any product name that is the same or similar either in writing or pronunciation, with the product name of an adulterated product is prohibited.

#### 5.1.1 List of Non-Permissible Product Name for Health Supplement Products

No.	Issue	Example
1.	<b>Prohibited use of disease names as stated in the Medicines (Advertisement and Sale) Act 1956 (revised 1983)</b>	Diabetes, Asthma, Cancer
2.	<b>Prohibited use of a single active ingredient as a product name in products containing more than one active ingredient unless product name contains words such as 'Plus, Compound, Complex, Herbanika</b>	If the product contain Vitamin C, Vitamin E and Fish Oil  Product name: "Vitamin C" is not allowed but product name: "Vitamin C Plus" is allowed.
3.	<b>Prohibited use of superlative</b> Names that indicates superiority or inefficacy	Power, Superior, Pure, Mustajab, Safe, Healthy, Penawar, VIP, Good, World Number 1

No.	Issue	Example
4.	<p><b>Prohibited use of spelling of words that may cause confusion</b></p> <p>i) Words that involve names of/ part thereof: 20 disease names prohibited in the Medicines (Advertisement and Sale) Act 1956 (Revised 1983)</p> <p>ii) Other diseases without scientific proof</p> <p>iii) Prohibited indication</p>	<p>Go Out = GOUT (label)</p> <p>Utix</p>
5.	<p><b>Prohibited use of names that may cause ambiguity</b></p> <p>Ambiguous product name</p>	<p>B For Energy?</p>
6.	<p><b>Prohibited use of names that may be offensive or indecent</b></p>	<p>SENXBIG=SEnXBIG (label)</p> <p>Sexy, Enjoy, Paradise, Heavenly, Blue boy, Casanova, Desire</p>
7.	<p><b>Product name not congruent with the active ingredient</b></p>	<p>The active ingredient is Evening Primrose oil (EPO) and the product name: "Marine tablet" is not allowed</p>
8.	<p><b>Prohibited use of product names that has elements of ludicrous belief</b></p> <p>Statements referring to ancient beliefs/ negative spirits/ supernatural power</p>	<p>Words such as miracle, magic, magical, miraculous, saintly, heavenly</p>
9.	<p><b>Prohibited use of product names similar to the existing approved product names</b></p> <p>Product name similar to the spelling and pronunciation of words of existing product names</p>	<p>Elegen vs L-gen vs L-jen Forte vs Fort</p>
10.	<p><b>Prohibited use of product names that may cause ambiguity in the nature of product (drug/ food/ beverage)</b></p> <p>Product name similar to a food/ beverage name</p>	<p>Juice, Health drink, Beverage, Kooky</p>

No.	Issue	Example
11.	<b>Prohibited use of product names that represents professional advice or opinion</b>	Dr Sunny, Professor
12.	<b>Product name that symbolizes a claim</b>	Vigour, Youthful, High, Hi
13.	<b>Product name that uses strength but formulation contains more than one active ingredient</b>	If the product contains multivitamins and minerals.  Product name: "XXX multivitamins and minerals 500mg" is not allowed.
14.	<b>Other prohibited product names</b>	Minda, IQ, Smart, Unique, Ultra Mega, Detox, Defence, Immunity
15.	<b>Names of organs and brain</b>	Heart, kidney, skin, liver

**Note:**

1. This list is not meant to be exhaustive and will be reviewed from time to time.
2. The Authority reserves the right to disallow any other words, phrases or graphics for product label, which in its opinion is misleading, improper or not factual.



## 5.2 Dosage Forms

- Allowed dosage forms include:
  - a) Tablets  
Caplet, lozenge, chewable tablet, dispersible tablet, effervescence tablet, uncoated tablet, enteric coated tablet, sugar coated tablet, film coated tablet, extended release tablet;
  - b) Capsules  
Soft capsule, hard capsule, enteric coated capsule, chewable soft capsule, extended released capsule;
  - c) Powder/ Granules
  - d) Liquid  
Emulsion, syrup, spray, suspension.
- Products in the shape of animal dosage forms are not allowed.
- Supporting data from established references (e.g. Standard Pharmacopeia) shall be required for a new dosage form.
- The form that correctly describes it in terms of its product quality control specifications and performance shall be selected.
- A separate application for registration is required for each dosage form.
- The following documents are required during submission of product dossier for **sustained-release/ extended-release/ timed-release dosage form**
  - i) Protocol of analysis;
  - ii) In-Process Quality Control (IPQC);
  - iii) Finished Product Specification (FPQC);
  - iv) Certificate of Analysis (COA).

## 5.3 Active Ingredients

### 5.3.1 Name of Active Ingredient :

- Please select active ingredient from the search database. If the substance is not listed, please select the “Not Listed Ingredient” button. An automatic e-mail will be sent to NPRA for notification.
- Approved names and pharmacopoeia names of ingredients shall be used whenever possible.

### 5.3.2 Strength of active ingredient :

- To enter the content of active ingredients (numerical) and then select the weights and measures from the given list.

- Content of the ingredients shall be expressed accordingly in the following manner:
  - a. quantity per unit dose (e.g. for unit dose formulations - tablet, capsule, lozenge, etc.)
  - b. percentage composition (%w/w, %w/v, %v/v, etc.)
  - c. weight per ml. (e.g. for solutions, suspension etc.)
  - d. quantity (percentage or amount) per measured dose (e.g. oral liquids, drops, etc.)
- Metric weights and measures shall be used.

### 5.3.3 **Source of Active ingredient:**

To specify the source such as animal, plant, synthetic or others (to specify)

### 5.3.4 **Remarks on active ingredient (if any):**

- To specify the equivalent/providing amount of active component from the raw material (e.g: Sodium ascorbate 520 mg providing... Vitamin C)
- Declaration of species name from natural source (plant, animal or others)

### 5.3.5 **Use of Protected/ Endangered Ingredients**

#### **a) Protected/ Endangered Wildlife Species**

It is the responsibility of the applicant to ensure that the ingredient(s) derived from wildlife species, its parts and derivatives used in the formulation **COMPLIES** with the Wildlife Conservation Act 2010 (Act 716) and International Trade in Endangered Species Act 2008 (Act 686). Both guidelines can be downloaded at the PERHILITAN website (<http://www.wildlife.gov.my>).

The applicant shall contact the following department to obtain the necessary permit/ license. A copy of the permit/ license shall be submitted with the application form for product registration.

Department of Wildlife and National Parks, Peninsular Malaysia  
Km. 10, Jalan Cheras,  
56100 Kuala Lumpur,  
Tel: +603-90866800, Fax: +603-90753873

#### **b) Endangered Botanical Species**

It is the responsibility of the applicant to declare the source of the botanical ingredient if it is listed under the International Trade in Endangered Species Act 2008 (Act 686). If the ingredient is from a local source, a special permit/ license shall be obtained from the:

Division of Protection and Quarantine of Plants,  
 Department of Agriculture,  
 Tingkat 1-3, Wisma Tani,  
 Jalan Sultan Salahuddin,  
 50632 Kuala Lumpur.  
 Tel: +603 - 20301400, Fax: +603 - 26913550.

**5.3.6: Additional data to support new health supplement active ingredients**

No.	Types of documents	Checklist
1.	Standard/ established references	<ul style="list-style-type: none"> <li>• Martindale, Pharmacopeias, Monograph etc.</li> </ul>
2.	Information from the competent authorities of reference countries	<ul style="list-style-type: none"> <li>• Information shall be provided from the competent authorities of reference countries (Refer to 9.6.5)</li> <li>• Example of supporting documents:                             <ul style="list-style-type: none"> <li>➢ Registration status and maximum registered dosage as health supplement</li> <li>➢ established monograph</li> <li>➢ GRAS status</li> </ul> </li> </ul>
3.	Clinical studies or scientific evidences	<ul style="list-style-type: none"> <li>• Full published articles</li> <li>• Unpublished data may be considered</li> <li>• Mandatory for high claim</li> </ul>
4.	Non-clinical studies to support long term-use	
5.	Toxicology studies with the determination of NOAEL (No observed adverse effect level)	
6.	Pharmacological study	
7.	Justification for the use of new active ingredient as health supplement	
8.	Registration status worldwide	<ul style="list-style-type: none"> <li>• Registered and Marketed Date</li> </ul>

**Note:** The documentation must support the safety use and dose of new active ingredients as a health supplement.

#### 5.4 Any Animal Origin

Any source from animal origin must be declared and the type of animal must be specified.

#### 5.5 Manufacturer

The requirements for Good Manufacturing Practice (GMP) for the manufacturers are in **Table 5** below:

**Table 5:**

Level of claims	Requirements for GMP
General/ Functional	<p>a) Malaysia <i>Guidelines on Good Manufacturing Practice for Traditional Medicine and Health Supplement latest edition.</i></p> <p style="text-align: center;">Or</p> <p>b) The accepted standards for GMP will be determined by the category the product is classified in the country of origin. For example, if the product is classified as food in the country of origin, GMP certificate of food standard issued by relevant country authority will be accepted on condition that the standards are similar to those practices in Malaysia.</p> <p style="text-align: center;">Or</p> <p>c) If the product is not regulated in the country of origin and does not require GMP certification, the manufacturer will have to produce a GMP certificate issued by an independent body recognised by the Authority. Information including the standard/ regulations/ legislation to which the inspection was based upon must be mentioned.</p>
Disease Risk Reduction	<p>a) Malaysia <i>Guidelines on Good Manufacturing Practice for Traditional Medicine and Health Supplement latest edition</i></p> <p style="text-align: center;">Or</p> <p>b) The Pharmaceutical Inspection Convention and Pharmaceutical Inspection Co-operation Scheme (PIC/S) Standards.</p> <p style="text-align: center;">Or</p> <p>c) GMP certificates issued by relevant country authority will be accepted on condition that the standards are similar to PIC/S Standards</p>

## **5.6 Contract Manufacturer**

Contract manufacturer is applicable when the product owner is not the product manufacturer.

## **5.7 Second Source Information**

An application for a second source may be considered when deemed necessary. This second source product shall be the same as the first product in all respects except for the site of manufacture.

## **5.8 Other Manufacturer**

Any manufacturer involved in assembly, fill & finish, active ingredients, packing, labeling etc.

## **5.9 Imported Products**

Imported product needs to be declared.

## **5.10 Product Containing Premix**

Premixed active ingredient(s) is a combination of two or more active ingredients that are previously manufactured by a different manufacturer.

Certificate of GMP for manufacturer/ supplier is required for the premixed ingredient(s) in formulation. The requirements for GMP are same as in Table 5 as above.

## **5.11 Replacement Product**

A PRH is not allowed to register/ hold two or more products with similar formulation (same active ingredient of raw material, strength and dosage form) at any one time, except for product variants.

A letter of justification for replacement by the PRH is required.

## ADMINISTRATIVE DATA AND PRODUCT INFORMATION

### SECTION A: PRODUCT PARTICULARS

#### 5.12 Product Description

Briefly state the **visual and physical characteristics** of the product, according to **Table 6** below (where applicable):

No.	Dosage Form	Description
1.	Tablet	Shape, size, colour, odour, taste, marking, emboss, type of tablet (e.g. coated, uncoated, film, sugar etc.)
2.	Capsule	Shape, size, colour, odour, taste, marking, emboss, coating, content of capsule, type of capsule (e.g.: soft, hard, chewable etc.)
3.	Liquid	Clarity, type (e.g. solution/ suspension/ emulsion etc.), taste, odour, colour.
4.	Powder	Colour, odour, taste etc.
5.	Pill	Colour, odour, taste, size etc.
6.	Granules	Colour, odour, taste, size etc.

#### 5.13 Indication/ Usage

Briefly state the recommended use(s) of product. The following indications are allowed:

- Used as a Health Supplement; or
- Vitamins and mineral supplements for pregnant and lactating women.

#### 5.14 Recommended Dose (Dose/ Use Instruction) & Route of administration

State the dose (normal dose, dose range) and dosing schedule (frequency, duration if applicable). Dosage for adults and children (where appropriate) shall be stated.

#### 5.15 Contraindication

State conditions for which or under which the product shall not be used.

Indicate clearly conditions that are:

- absolutely contraindicated,

- contraindicated but may be used under special circumstances and what precautions should be taken in such cases.
- If no information is available for this section, state “Unknown”.

### **5.16 Warnings and Precautions**

Briefly state warnings and precautions necessary to ensure safe use of the product, e.g. caution against giving to children and elderly; use in pregnancy and lactation; in infants; etc.

If no information is available for this section, state “Unknown”.

### **5.17 Drug Interactions**

State only interactions that are observed and/or for which there is potential clinical significance. Interactions may occur with

- other medicinal products used;
- other herbs/ substance;
- meals, or specific types of food.

If no information is available for this section, state “Unknown”.

### **5.18 Pregnancy and Lactation**

State any effect on pregnancy and lactation, if applicable.

### **5.19 Side Effects/ Adverse Reactions**

State in order of severity and frequency, the side effects, adverse reactions, toxic effects, etc. (i.e. reactions, toxic effects, other than those desired therapeutically). This included reactions such as allergy, hypersensitivity, dependence, addiction, carcinogenicity, tolerance, liver/ kidney toxicity, etc.

Indicate symptoms and sites of effects/reactions.

- Reactions, whether minor or serious, shall be stated.
- Severity, reversible, frequency of occurrence shall be indicated wherever possible.
- Clinical tests for detection of ‘sensitive’ patients, measure for management of adverse reactions developed shall be described wherever possible.

If no information is available for this section, state “Unknown”.

## **5.20 Signs and Symptoms of Overdose and Treatment**

Briefly state symptoms of overdose/ poisoning, and where possible, recommended treatment and antidotes for overdose/ poisoning.

If no information is available for this section, state “Unknown”.

## **5.21 Storage Conditions**

State the recommended storage conditions (specific temperature, eg: 30°C, humidity, light, etc.).

Information shall include storage condition before first opening, after reconstitution and/or after opening and for all the listed pack types where applicable. Stability data to support such storage condition shall be made available.

## **5.22 Shelf Life**

The shelf life for all the listed pack types shall be supported by stability data.

Information shall also include shelf life before first opening, after reconstitution and/or after opening where applicable. Stability data to support such shelf life shall be made available.

Evidence is required to demonstrate that the product is stable (meets the finished product shelf life specifications throughout its proposed shelf-life).

## **5.23 Therapeutic Code (if any)**

Select “Health Supplement”.



**SECTION B: PRODUCT FORMULA**

**Change of formulation for active ingredient or excipient is not allowed during product evaluation.**

**5.24 Batch Manufacturing Formula (BMF)**

State the batch size and actual batch manufacturing master formula. Data from validation step will be captured in terms of substance name, type (active ingredient or excipient), function and quantity per unit dose. Other information will need to be entered.

An **attachment** of the Batch Manufacturing Formula documentation must be provided. The documents must be verified by authorized personnel.

**Example of BMF documentation:**

ABC Sdn. Bhd. Batch Manufacturing Formula				
Product Name: Batch Quantity: 1,000,000 capsules				
Name	Function	Quantity per capsule	Batch quantity	Overage
Pyridoxine HCl	Active	_ mg	_ kg	_ %
Cholecalciferol	Active	_ mg	_ kg	_ %
Glycerin	Excipient	_ mg	_ kg	None
Gelatin	Excipient	_ mg	_ kg	None
Purified water	Excipient	0 mg *	_ kg	None
		Total: _ mg	Total: _ kg	
* evaporated, does not exist in final formulation  (Signature) Post of authorized person Name of authorized person Date:				

## **SECTION C: PARTICULARS OF PACKING**

### **5.25 Packaging**

- Maximum pack size allowed for tablets, pills, or capsules is based on daily dosing for a quantity not exceeding six (6) months usage. This does not apply to products in blister or strip packaging (with justification).
- Maximum pack size allowed for products with disease risk reduction claim is for one (1) month supply of products unless justified.
- Product with dosage form of soft gel with tail (twist and squeeze) shall come with children proof cap.
- Packaging particulars to the listing of packing as follows ;
  - C1: pack size and fill details by weight, or volume or quantity;
  - C2 : container type
  - C3 : Barcode/ serial No (optional);
  - C4 : recommended distributor's price (optional);
  - C5 : recommended retail price (optional);

## SECTION D: LABELLING REQUIREMENTS

### 5.26 Product label

The following information shall be present on the label of a product at the outer carton, immediate container or blister/ strips:

Refer to specific Appendix for:

a) [Appendix 19 : General Labelling Requirements](#)

Label (mock-up) for immediate container and outer carton;

b) [Consumer Medication Information Leaflet \(RiMUP\)](#)

For health supplement with high claims/ disease risk reduction

c) [Appendix 20 : Specific Labelling Requirements](#)

For specific substances, e.g. alfalfa, arginine, bee pollen, chitosan, Boswellia serrata etc.

Additional Requirements for Labelling:

- Information on the Product Name, and Name and Strength of active ingredient(s) must be printed repeatedly (for blister/ strip).
- Product with dosage form of soft gel with tail (twist and squeeze) shall include the statement 'Under parent supervision' in the label.
- For products containing animal origin(s), add this statement: *This product contains substance(s) from animal origin.*
- For products containing porcine, add this statement: *This product contains animal part(s) (porcine/pig).*

Health supplement products with disease risk reduction claims (high) are encouraged to be dispensed under the supervision of pharmacists or medical practitioners. At such, the label and package insert of health supplement products with disease risk reduction claims (high) shall have the following statement:

**“Please consult a doctor/ pharmacist before taking this product”.**

### 5.27 Standard Labelling for Health Supplements

<ul style="list-style-type: none"> <li>• Name and Strength of active substances</li> <li>• RDA (optional)</li> <li>• Preservative(s) (where present)</li> <li>• Alcohol (where present)</li> <li>• Indication</li> <li>• Dose / Usage Instruction</li> <li>• Functional Claim (if applicable)</li> <li>• Warnings (If applicable)</li> <li>• Storage Condition</li> <li>• Keep out of reach of children / Jauhkan daripada capaian kanak-kanak</li> </ul>	<p style="font-size: 2em; font-weight: bold; letter-spacing: 0.5em;">PRODUCT NAME</p> <p style="font-size: 3em; font-weight: bold; letter-spacing: 0.2em;">GRAPHIC</p>	<ul style="list-style-type: none"> <li>• Name &amp; address of Product Registration Holder</li> <li>• Name &amp; address of Manufacturer</li> <li>• Sources (animal origin)</li> <li>• Source of capsule shell (if applicable)</li> <li>• Batch Number</li> <li>• Manufacturing Date</li> <li>• Expiry Date</li> </ul> <p>MAL .....</p>
	<ul style="list-style-type: none"> <li>• Pack Size</li> <li>• Dosage Form</li> </ul>	

**Note:**

- *Product label shall follow the standard labelling for Health Supplement.*
- *Information stated on the left and right panel is interchangeable.*
- *All information on the label must be truthful and not misleading to the consumers.*
- *Batch number, manufacturing date, expiration date can be stated on the label, on top of the cap or bottom of the bottle.*
- *The front panel must contain the information as above. However, the information on the side panels is interchangeable. Additional cautionary labelling relating to the safety of the product may be imposed.*

**5.28 Prohibited Visual/ Graphics on Label, as shown in Table 7 below:**

- The label should not contain any statement or visual presentation which, whether directly or by implication, is likely to mislead the consumer about any product.
- The graphics printed on the outer and inner labels have to be standardized to avoid confusion to the customers.

No.	Issue	Example	Note
1.	Marketing strategy	<b>Example:</b> “Money back guarantee” “Buy 1 free 1” “Backed by RM5 million product Liability Insurance”	Such statements are prohibited on labels.
2.	Usage guide which promotes use of other product(s)	<b>Example:</b> “After consumption of this product (Product A), for better results, it is recommended to take Product B”	Prohibited on product label
3.	Consumer testimonial		Prohibited on product label
4.	Clinical Trial results or any information on clinical trial done on product	<b>Example:</b> “Clinically Tested” “Randomized Double-Blind Placebo Control Clinical Study”	Such statements are prohibited on labels.
5.	Reference to Hadith/ Al-Quran/ Bible/ Religious books		Prohibited on product label
6.	Opinion of prominent figure(s) on product or its active ingredient/ content	<b>Example:</b> Opinion of product/ formulation inventor	Prohibited on product label

No.	Issue	Example	Note
7.	Label design (graphic and color) similar to labels from another company		Prohibited on product label
8.	Statement on active ingredient origin	<b>Example:</b> Source from the Mountains of Alps	Allowed if proven true
9.	Introduction of founder/ Manufacturer		Prohibited on product label
10.	Logo with certification	<b>Example:</b> SIRIM/ ISO / GMP/ HACCP	Prohibited on product label because certification renewal is on a yearly basis
11.	Name/ Statement/ Logo/ registered trademark which does not satisfy the specifications	<b>Example:</b> "Dr. ABC's Formula" "Nothing like it"	Prohibited on product label
12.	Special technique used/ superiority in ingredients	<b>Example:</b> Capsule coat	Allowed if proven true
13.	Nutritional claims with analysis certificate attached	<b>Example:</b> Calorie, Fat, Protein and others	Prohibited on product label
14.	Graphics or picture of internal organs	<b>Example:</b> Kidney, Heart, Nerves.	Prohibited on product label
15.	Gender symbol (male or female)	(♀ and/or ♂)	Prohibited on product label
16.	Indecent photographs/ pornography/ graphics/ images		Prohibited on product label

No.	Issue	Example	Note
17.	Graphics which are incoherent with the indication	<b>Example:</b> - Noted indication is for constipation, but graphics on label shows a slim-looking lady which denotes indication for weight loss - Indication for urination but label graphics contains picture of a water hose.	Prohibited on product label
18.	Highlighting unnecessary body parts	<b>Example:</b> Indication is for general health but graphics on label highlights male and female sexual organ parts	Prohibited on product label
19.	Graphics of plants or animal which may cause confusion	<b>Example:</b> Radix Ginseng which is improvised as a male sexual part	Prohibited on product label
20.	Photograph of celebrities	<b>Example</b> - Artiste, sports person(s), politician	Prohibited on product label
21.	Statement on sugars	<b>Example</b> - This product contains no added sugar	Allowed on product label provided the product contains no fructose, glucose, sucrose, or other kind of sugars with a potential to affect diabetics are not included in the formulation
22.	Negative statement	<b>Example</b> - No gluten, yeast etc	Prohibited on product label
23.	Other statements	<b>Example:</b> - This product is blended with premium quality - Certified chemical residue free	Prohibited on product label

No.	Issue	Example	Note
24.	Label design (graphic/ colour) similar to/ same as an adulterated product		Prohibited on product label

**Notes:**

1. The list is not meant to be exhaustive and will be reviewed from time to time.
2. The Authority reserves the right to disallow any other words, phrases or graphics for product label, which in its opinion is misleading, improper or not factual.

**5.29 Package insert (Optional)**

The following information is required to be included in a package insert:

- (i) Brand or Product Name
- (ii) Name and Strength of Active Substance(s)
- (iii) Product Description
- (iv) Indication
- (v) Dose/ Use Instruction
- (vi) Contraindications
- (vii) Warnings and Precautions
- (viii) Interactions with Other Medications
- (ix) Statement on usage during pregnancy and lactation
- (x) Adverse Effects/ Undesirable Effects
- (xi) Overdose and Treatment
- (xii) Storage Conditions (may be omitted if the information is stated on the label or outer carton labels)
- (xiii) Dosage Forms and packaging available
- (xiv) Name and Address of manufacturer/ product registration holder
- (xv) Date of Revision of Package Insert



## **SECTION E : PARTICULARS OF PRODUCT OWNER, MANUFACTURER, IMPORTER AND OTHER MANUFACTURER(S) INVOLVED AND STORE ADDRESS**

### **5.30 Product Owner**

Please select whether the product owner is the product holder, manufacturer or both.

If the product owner is neither the product holder nor the manufacturer, please select name and address of the product owner (applicable for imported product only).

Other details such as product owner, manufacturer, repacker, other manufacturer involved in the manufacturing process, store address and importer (if any) are required to be filled. It is mandatory for the repacker to acquire GMP certificate.

### **5.31 Letter of authorization from product owner**

This is applicable for imported product in which the product owner appoints the product holder (in Malaysia) as their product holder in Malaysia

### **5.32 Letter of appointment of contract manufacturer and/ or repacker**

This applies if the product is contract manufactured by a manufacturer who is not the product owner.

### **5.33 Letter of acceptance from contract manufacturer and/ or repacker**

This applies if the product is contract manufactured by a manufacturer who is not the product owner.

### **5.34 Certificate of Pharmaceutical Product (CPP), Certificate of Free Sales (CFS) and Good Manufacturing Practice (GMP)**

CPP can be submitted in replacement of CFS and GMP certificate if the product is classified as a pharmaceutical product in the country of origin:

### 5.35 **GMP/ CFS Template**

Authority name, address, country
Type of certificate
Company name (product owner/ manufacturer)
Product name
Product formulation if available
Dosage form
<b>Statement of freely sold (similar meaning) if for CFS certificate</b>
<b>Standard of GMP and compliance status if for GMP certificate</b>
Duration of certification
Name, signature and designation of authorized personnel
Date of signature
<b><u>Note:</u></b> The certificate must be in English or translated into English (certified true by issuance or embassy or notary public)

### 5.36 **Attachment of Protocol Analysis**

Protocol analysis is attached here. (Part of quality of product-Section P: Drug Product)

**SECTION P: DRUG PRODUCT**

**5.37 Manufacturing Process**

Provide a brief description of the manufacturing process. Provide essential points of each stage of the manufacturing process and a description of the assembling of the product into final containers. If the product is repacked/assembled by another manufacturer, provide details of repacking/assembly and quality control.

The manufacturing process may be presented in the form of a flowchart.

**5.38 Control of Critical Steps and Intermediate/In Process Quality Control (IPQC)**

Provide a summary of the tests performed, stages at which they are done, and the frequency of sampling and number of samples taken each time. Provide specifications for quality assurance of the product.

**Example of In Process Quality Control:**

Company Name/ Address:						
Applicant/ Client Name/ Address:						
Date:						
<b><u>In-Process Quality Control: Test performed during manufacturing process</u></b>						
No.	Test Done (example)	Stage Done (example)	Frequency of testing (example)	Quantity sample taken (example)	Specifications (example)	Method (example)
1.	Appearance	Before weight, after encapsulation	2	10 gram	Blue like orange	Organoleptic test
2.	Disintegration	After compression	2	10 tablet	NMT 30 minutes	Equipment etc.
3.	Uniformity of weight	After tableting, Packaging	4	20 Tablets	1 gram/tab	
<p>* Declaration (if any) Signature (authorized personnel) Name: Designation:</p> <p><b>* The above parameters are only as an example; other test may be required for specific product.</b></p>						

**5.39 Finished Product Quality Control**

- a) Provide details of quality control specifications, including a list of tests for both release and shelf life specifications (if they are different) and state the limits of acceptance.

**Example of Finished Product Quality Specification :**

<b>Finished Product Quality Control (FPQC) - Finished product Specification/ Specification Sheet</b>				
Company name/Address:				
Product Name:				
Batch no.				
Dosage form:				
Packaging:				
Date of manufacture:				
Date of expiry:				
<b>No.</b>	<b>Test</b>	<b>Method</b>	<b>Specification</b>	<b>Reference</b>
1.	Appearance/ Organoleptic: Odour Colour	Ex: Macroscopic/ Microscopic	To describe the characteristic	In-house/ pharmacopoeia (e.g. BP/USP etc.)
2.	Assay: (All active ingredients/ compounds claim on label)	HPLC/ GC/ MS/ UV	To specify	To specify
3.	Disintegration/Dissolution	To specify	DRGD	DRGD
4.	Uniformity of weight	To specify		
5.	Water content	To specify		
6.	Microbial contamination TAMC, TYMC, specified microorganism	To specify	DRGD	DRGD
7.	Heavy Metal Contamination: Lead, Arsenic, Cadmium, Mercury	To specify	DRGD	DRGD
8.	Etc.:			
Signature:				
Name:				
Designation: (At least by Quality Assurance Manager or equivalent)				
Date of signature:				
<b>* The above parameters are only as an example; other test may be required for specific product.</b>				

b) **Certificate of Analysis of Finished Product**

- The Certificate of Analysis of Finished Product must be complete with the product specification and result. The list of tests and specifications must be same with finished product specification document.
- Effective from 1 January 2018, **two (2) batches of Certificate of Analysis (CoA) of Finished Product** must be submitted for new product registration of Health Supplement products with general claim.

(Reference: Directive No. 3, 2017, [BPFK/PPP/07/25\(8\)Jld.1](#): *Direktif Untuk Menguatkuasakan Keperluan Sijil Analisa Produk Siap (Certificate of Analysis (CoA) For Finished Product) Semasa Permohonan Pendaftaran Baru Produk Semulajadi dan Produk Suplemen Kesihatan Dengan General Claims*) (15 February 2017)

**Example of Certificate of Analysis for Finished Product (Health Supplement)**

<i>Certificate of Analysis</i>				
<b>Company name/ Address</b>	:			
<b>Product Name</b>	:			
<b>Batch no.</b>	:			
<b>Dosage form</b>	:			
<b>Packaging</b>	:			
<b>Date of manufacture</b>	:			
<b>Date of expiry</b>	:			
Test Parameter		Specifications	Results	Method
Appearance/ Organoleptic: Odour Colour		To describe the characteristic		
Disintegration		DRGD		
Uniformity of weight				
Assay: – All active ingredients/ compounds claimed on label – Active ingredients/ compounds assayed by QBI		To specify  To specify	Example: Results and statement 'Not Assayed. Quantified by Input' or words with similar meaning	QBI
<b>Microbial Contamination Test</b> TAMC, TYMC, specified microorganism		DRGD		
<b>Heavy Metal Contamination</b>				
Lead (Pb)		NMT 10 ppm		
Cadmium (Cd)		NMT 0.3 ppm		
Mercury (Hg)		NMT 0.5 ppm		
Arsenic (As)		NMT 5 ppm		
NMT = Not More Than				
Signature	:			
Name	:			
Designation	:	(At least by Quality Control Manager or equivalent)		
Date of signature	:			
Note: The above parameter are only as an example, other tests may be required for specific product.				

c) **Quality Control Test for Health Supplement Product are:**

**1. Limit Test for Heavy Metals**

- a) Lead : NMT 10.0 mg/kg or 10.0 mg/litre (10.0ppm)
- b) Arsenic : NMT 5.0 mg/kg or 5.0 mg/litre (5.0ppm)
- c) Mercury : NMT 0.5 mg/kg or 0.5 mg/litre (0.5ppm)
- d) Cadmium : NMT 0.3 mg/kg or 0.3 mg/litre (0.3ppm)

*\* Required for products with ingredients from natural sources.  
The test shall be conducted on the finished product.*

**2. Disintegration Test (for tablets, capsules and pills)**

**Disintegration time:**

- a) Uncoated tablets : NMT 30 minutes
- b) Film-coated tablets : NMT 30 minutes
- c) Sugar-coated tablets : NMT 60 minutes
- d) Enteric-coated tablets/capsules :  
Does not disintegrate for 60 minutes in acid solution but to disintegrate within 60 minutes in buffer solution; OR  
Does not disintegrate for 120 minutes in acid solution but to disintegrate within 60 minutes in buffer solution
- e) Capsules : NMT 30 minutes
- f) Pills : NMT 120 minutes

**3. Test for Uniformity of Weight (tablets and capsules only)**

**a) Tablet**

- For tablet with average weight of 130mg or less: Not more than 2 tablets differ from the average weight by more than 10% AND no tablets differ from the average weight by more than 20%
- For tablet with average weight between 130-324mg: Not more than 2 tablets differ from the average weight by more than 7.5% AND no tablet differs from the average weights by more than 15%
- For tablets with average weight more than 324mg: Not more than 2 tablets differ from the average weight by more than 5% AND no tablet differs from the average weight by more than 10%

**b) Capsule**

Individual weight of the capsule to be within the limit of 90-110% of the average weight.

4. **Tests for Microbial Contamination**, as shown in **Table 8** below:

Route of Administration	TAMC (CFU/g or CFU/ml)	TYMC (CFU/g or CFU/ml)	Specified microorganisms
Non-aqueous preparations for oral use	NMT $2 \times 10^3$	NMT $2 \times 10^2$	Absence of <i>Escherichia coli</i> (1 g or 1 ml)
Aqueous preparations for oral use	NMT $2 \times 10^2$	NMT $2 \times 10^1$	Absence of <i>Escherichia coli</i> (1 g or 1 ml)
Special Ph. Eur. provision for oral dosage forms containing raw materials of natural (animal, vegetal or mineral) origin for which antimicrobial pretreatment is not feasible and for which the competent authority accepts TAMC of the raw material exceeding $10^3$ CFU/g or CFU/mL.	NMT $2 \times 10^4$	NMT $2 \times 10^2$	Not more than $10^2$ CFU of bile-tolerant gram-negative bacteria (1 g or 1 ml or MPN) Absence of <i>Salmonella</i> (10 g or 10 ml) Absence of <i>Escherichia coli</i> (1 g or 1 ml) Absence of <i>Staphylococcus aureus</i> (1 g or 1 ml)

**Notes:**

TAMC : Total Aerobic Microbial Count [Not applicable to products containing viable microorganisms as active ingredient (Example: product containing probiotics from bacteria)]

TYMC : Total Yeasts & Moulds Count [(Not applicable to products containing viable microorganisms as active ingredient (Example: product containing probiotics from yeasts))]

NMT : Not more than

[Reference: latest version of British Pharmacopoeia]

d) **Other supporting documents**

- For the submission of other supporting documents.
- Additional requirement for safety and quality of active ingredient/ product (e.g., dose for children, pregnant etc.)
- Quality testing for specific ingredient:
  - For product containing *Aphanizomenon flos-aquae*, applicants would have to provide certificates of analysis showing that the microcystin-LR or total microcystins content of the raw material does not exceed  $1\mu\text{g/g}$  and the finished product has been tested for microcystin-LR using an acceptable method.
  - For products containing probiotics, applicants are required to provide strain specific antibiotic resistance data for each probiotic strain.



- For products containing Red Yeast Rice (*Monascus purpureus*), applicants shall provide certificates of analysis (for both raw material and finished product) showing the Monacolin-K content. The percentage of Monacolin-K shall not exceed 1% and the Monacolin-K consumed shall not exceed 10 mg per day.
- Quality testing for specific product:
  - Certificate of Analysis for the level of dioxin (PCDDs and PCDFs) and dioxin-like polychlorinated biphenyls (PCBs) is required for product containing ingredient(s) derived from seafood. *(The acceptable limit for these tests shall follow standard references such as United States Pharmacopoeia (USP) and European Regulation.)*
  - Certificate of Analysis for proof of hormone-free is required for product containing placenta

#### 5.40 **Stability Data**

**General:**

- The stability of the product is important to ensure the quality of health supplement product. This is to ensure that the product specifications are maintained throughout the shelf life of product.
- Effective from 27 November 2014, a shelf life of two (2) years shall be approved for both local and imported products. Proposed shelf life exceeding this period will have to be supported by stability study data conducted in Malaysia under Zone IVb conditions (30±2 °C, 75±5%). For further information, refer to circular: [Bil.\(27\).dlm BPFK/PPP/06/04 Jld.7](#) *Tempoh Hayat Simpanan (Shelf-Life) Bagi Produk Tradisional dan Suplemen Kesihatan* (27 November 2014).
- The testing frequency of the stability data is as described in **Table 9** below:

Storage condition	Testing frequency
Real time	Time 0, 3, 6, 9, 12, 18, 24 months and annually there after through
Accelerated	0, 3 and 6 months

Refer to the ASEAN Guidelines on Stability Study and Shelf Life of Health Supplements for further details.

**Storage Conditions with Type of Container Closure System/ Stability Study**

**Table 10:**

No.	Type of Container Closure System/ Study	Storage Condition
1.	Products in primary containers permeable to water vapour	30°C ± 2°C/75% RH ± 5%RH
2.	Products in primary containers impermeable to water vapour	30°C ± 2°C
3.	Accelerated studies	40°C ± 2°C/75% RH ± 5%RH

**Reports of stability studies shall provide details of:**

- the batches placed under study (a minimum of 2 batches are required).
- containers/ packaging type.
- conditions of storage during study (temperature, humidity, etc).
- duration of study and frequency (interval) of the tests/ observations.
- the tests performed and acceptance limits.

**Example of Stability Data (Health Supplement)**

**STABILITY DATA**

**PRODUCT NAME** : TABLET ABC 500MG **BATCH NO.** :  
**MANUFACTURING DATE:** dd/mm/yy **TEMPERATURE:** 30 °C ± 2 °C  
**EXPIRY DATE** : dd/mm/yy **RELATIVE HUMIDITY** : 75 % ± 5%

Tests	Specification	Frequency of Testing							
		0	3	6	9	12	18	24	36
Product description	Film-coated tablet, brownish in colour								
Disintegration test	NMT 30 minutes								
Assays - All active ingredients/ compounds claimed on label	eg: 90% -120% (ref....)								
Active ingredients/ compounds assayed by QBI	To specify	'Not Assayed. Quantified by Input' or words with similar meaning							
Microbial Contamination test:  Total Aerobic Microbial Count  Total Yeasts & Moulds Count  Test for Specified Microorganisms	  NMT 2 x 10 <sup>4</sup>  NMT 2 x 10 <sup>2</sup>  ➤ NMT 1 x 10 <sup>2</sup> CFU of bile-tolerant gram-negative bacteria in 1g or 1ml or MPN  ➤ Absence of Salmonella in 10g or 10ml  ➤ Absence of Escherichia coli in 1g or 1ml  ➤ Absence of Staphylococcus in 1g or 1 ml								
Heavy metal test: Lead Arsenic Mercury Cadmium	≤10.0 mg/kg (≤ 10ppm) ≤5.0 mg/kg (≤ 5ppm) ≤0.5 mg/kg (≤ 0.5ppm) ≤0.3 mg/kg (≤ 0.3ppm)								NA

Conclusion -----

Analyst name: (signature)  
 Name:  
 Designation  
 Date:

Verified by: (signature)  
 Name:  
 Designation  
 Date:

Stability study data checklists are as in **Table 11** below:

Data Required	Remarks
Company name	- From product holder/ manufacturer/ third party lab
Product name	- To be same with other documentation
Dosage form	- To be same with A3
Packaging particulars	<ul style="list-style-type: none"> <li>- Material and pack size must be stated</li> <li>- To be same with C1</li> </ul>
Storage condition	<ul style="list-style-type: none"> <li>- Temperature and humidity must be stated</li> <li>- Shall comply with ASEAN Zone IV requirement (<math>30\pm 2^{\circ}\text{C}/75\pm 5\%\text{RH}</math>)</li> <li>- If different storage condition (e.g. <math>25^{\circ}\text{C}</math>, <math>2-8^{\circ}\text{C}</math>), must provide justification/ supporting data.</li> </ul>
Frequency of testing	<p>For example:</p> <ul style="list-style-type: none"> <li>- 0, 3, 6, 9, 12, 18, 24 months and annually for the proposed shelf life</li> </ul>
List of relevant tests	<ul style="list-style-type: none"> <li>- All tests required for each dosage form shall be conducted, for example:               <ul style="list-style-type: none"> <li>o Physical appearance changes</li> <li>o Disintegration test (if applicable)</li> <li>o Chemical Assays for active ingredients (if applicable)</li> <li>o Microbial tests</li> </ul> </li> </ul>
Specifications	<ul style="list-style-type: none"> <li>- Acceptance limit for each test must be stated</li> <li>- To be supported by established references (e.g. USP, BP) if available</li> </ul>
Results for each test	- Must meet the specifications
Approval by authorized person	- Must have the name, post and signature of authorized person

Testing Parameters of Stability Study for each type of dosage forms are shown in **Table 12** below:

Testing Parameters / Dosage Form	Appearance/ organoleptic (odor, color, taste)	Assay*	Hardness/ friability	Disintegration or dissolution rate	Moisture content	Viscosity	pH	Microbial content	Granules/ Particle Size variation	Re-suspendability
Oral powder	√	√			√			√		
Hard capsule	√	√		√	√			√		
Soft capsule	√	√		√				√		
Coated and Uncoated Tablet	√	√	√ (uncoated)	√	√			√		
Coated and Uncoated Pill/ Pellet	√	√		√	√			√		
Suspension	√	√				√	√	√	√	√
Solution	√	√				√	√	√		
Emulsion	√	√				√	√	√		
Granules	√	√			√			√	√	

**\*Notes:**

1. The list of tests for each product is not intended to be exhaustive, nor is it expected that every listed test to be included in the design of the stability study protocol for a particular finished product.

\* Assay to determine the stability of a single active ingredient or a single marker/surrogate indicator that is susceptible to change during storage and is likely to influence quality shall be sufficient to infer the overall stability of the TM/HS product irrespective of whether the finished product contains single or multiple active ingredients.

2. Justification must be given if one of the tests is not conducted for relevant dosage form.

3. Effective from 1 January 2023, Quantification by Input (QBI) of active ingredients may be considered for Traditional Medicine and Health Supplement (TMHS) Products. For details, refer to the "Direktif Berkenaan Pelaksanaan Garis Panduan Guidance on the Acceptance Criteria for Quantification by Input (QBI) of Active Ingredients Claimed on Label of Traditional Medicine and Health Supplement (TMHS) Products." [NPRA.600-1/9/13\(16\) Jld 1.](#) (8 November 2022)

## **SECTION 5: DRUG SUBSTANCE**

### **5.41 Specifications and Certificate of Analysis of Active Ingredient**

Certificate of analysis for each active ingredient (raw material) is required pre-registration. The certificate must consist of specifications and results of analyses.

**ATTACHMENT 1****CHECKLIST OF DOSSIER REQUIREMENT FOR HEALTH SUPPLEMENTS**

- Depending on the level of claims, submission may follow the route outlined:
  - i) General/ Nutritional and Medium Claims - Abridged evaluation
  - ii) Disease Risk Reduction Claims - Full evaluation

**Table 13: Checklist for General/ Nutritional and Medium Claim**

No.	Field	General or Nutritional Claims	Functional Claims
<b>Product Validation (PV)</b>			
PV1	Brand Name	√	√
	Full Product Name		
PV2	Dosage Form	√	√
	- COA capsule shell is required		
	- Colouring agent used in capsule		
	- Letter to verify the source of gelatin used		
PV3	List of Active ingredient(s)	√	√
PV4	List of excipient (s)	√	√
PV5-17	Other information (e.g., Manufacturer, premix etc., where applicable)	√	√
<b>Part 1</b>			
A4	Product Description	√	√
	- Describe visual and physical characteristics of the product including shape, size, superficial markings, colour, odour, taste, type of coating, type of capsule etc. where applicable		
	- Animal shape is only allowed for 'For Export Only' (FEO) Products		
A7	Product indication/ Usage	√	√
A8	Dose/ Use Instruction	√	√
	- Target population (e.g., Adults)		
	- Quantity and frequency		
	- Dosing schedule must be stated (e.g. take before/ after/ with meal)		
A10	Contraindication, if applicable	√	√
A11	Warning/ Precautions, if applicable	√	√

No.	Field	General or Nutritional Claims	Functional Claims
A12	Drug Interaction, if applicable	√	√
A14	Side Effects/ Adverse Reactions, if applicable	√	√
A15	Signs and Symptoms of overdose and treatment, if applicable	√	√
A19	Storage Condition	√	√
	- According to stability data		
A20	Shelf life	√	√
	- Must be supported by stability study		
	- Please refer subsection 5.40		
B1.1	Batch Size	√	√
B1.2	Batch Formula	√	√
B2	Attachment of Batch Manufacturing Formula	√	√
	- Shall be on the product owner's/ manufacturer's original letterhead, product details, date and signature & designation of authorized personnel		
C	Pack Sizes	√	√
	- Material and colour used for primary and secondary packing should be stated	√	√
D1	Label for immediate container	√	√
D2	Label for outer carton (if applicable)	√	√
D3	Proposed package insert / Product information leaflet (if applicable)	√	√
E1	Company name and address of product owner	√	√
	Letter of authorization from product owner to product registration holder (if applicable)	√	√
E2	Letter of Appointment of Contract Manufacturer/ Repacker from Product Owner (if applicable)	√	√
	Letter of Acceptance from Contract Manufacturer/ Repacker (if applicable)	√	√
E3	Certificate of Pharmaceutical Product (CPP) - Applicable to imported products, must be issued by the competent authority in the country of origin. CPP issued by reference country may be considered.	√	√



No.	Field	General or Nutritional Claims	Functional Claims
E4	Certificate of Free Sale (CFS) - Applicable if CPP is not available, must be issued by the competent authority in the country of origin/ products owner country.	√	√
E5	Certificate of Good Manufacturing Practice (GMP) - Applicable if CPP is not available, must be issued by the competent authority in the manufacturing country.	√	√
E6	Company name and address of manufacturer	√	√
E7	Company name and address of other manufacturer (if applicable)	√	√
E8	Importer(s)	√	√
E9	Store address(s)	√	√
E12	Attachment of protocol analysis	√ - dosage form extended/ sustained-release/ timed-release dosage form  * LOC to submit during post registration for other types of dosage form	√
E14	Examples of supporting documents		
	Dioxin level test results (for product containing ingredients derived from seafood)		
	Certificate of Good Manufacturing Practice (GMP) for premixed active ingredients	√	√
	Hormone free test results (for placenta products)		

No.	Field	General or Nutritional Claims	Functional Claims
	Declaration letter from product manufacturer on the hormone - free status for product containing placenta		
	Manufacturing process validation report if applicable		
	Letter of commitment if applicable		
	Etc.		
<b>Part II Section P</b>			
P3.2	Manufacturing Process	√	√
P3.2.1	Attachment of Manufacturing Process Document or Manufacturing Flow Diagram	√	√
P3.3	In-Process Quality Control (IPQC)	√ *LOC to submit data during post registration	√
P5.1	Finished Product Specification (FPQC)	√ * LOC to submit data during post registration	√
P5.4.1	Attachment of Certificate of finished product (COA of finished product)	√	√
P8	Stability Data	√ ***Please refer subsection 5.40)	√
<b>Part II Section S</b>			
S4.1 & S4.4.1	Attachment of Specifications and Certificate of Analysis (COA) of Active Ingredient	√	√
* Complete stability study conducted at 30 ± 2 °C / RH 75 ± 5%, IPQC, FPQC, protocol analysis and COA of finished product are required to be submitted 2 years after product registration with SAMPLE of the products. Failure on submission will cause the product be suspended until the complete documents are submitted, the registration of the product will be terminated if the complete documents still cannot be produced upon renewal of product registration.			

- Dossier Requirement for Disease Risk Reduction as in **Table 13** above and **Table 14** below:

**Table 14: Additional Quality Data Checklist for Disease Risk Reduction Claim**

No.	Field	Disease Risk Reduction Claim
PART P	<p><b>P. HEALTH SUPPLEMENT PRODUCT</b></p> <p>P1. <u>Description and Composition</u></p> <p>P2. <u>Pharmaceutical Development</u></p> <p>P2.1 Information on Development Studies</p> <p>P2.2 Components of the Health Supplement Product</p> <p>P2.3 Finished Product</p> <p>P2.4 Manufacturing Process Development</p> <p>P2.5 Container Closure System</p> <p>P2.6 Microbiological Attributes</p> <p>P2.7 Compatibility</p> <p>P3. <u>Manufacturer</u></p> <p>P3.1 Batch Manufacturing Formula</p> <p>P3.2 Manufacturing Process &amp; Process Control</p> <p>P3.2.1 Manufacturing Process Flowchart</p> <p>P3.3 Control of Critical Steps &amp; Intermediates</p> <p>P3.4 Process Validation and Evaluation</p> <p>P4. <u>Control of Excipients</u></p> <p>P4.1 Specifications</p> <p>P4.2 Analytical Procedure</p> <p>P4.3 Validation of Analytical Procedures</p> <p>P4.4 Justification of Specification</p> <p>P4.5 Excipient of Human or Animal Origin</p> <p>P4.6 Novel Excipients</p> <p>P5. <u>Control of Finished Product</u></p> <p>P5.1 Specification</p> <p>P5.2 Analytical Procedures</p> <p>P5.3 Validation of Analytical Procedures</p> <p>P5.4 Batch Analyses</p> <p>P5.5 Characterization of impurities</p> <p>P5.6 Justification of Specification</p> <p>P6. <u>Reference Standards or Materials</u></p>	<p style="text-align: center;">√</p>

No.	Field	Disease Risk Reduction Claim
	P7. <u>Container Closure System</u> P8. <u>Stability</u> P9. <u>Product Interchangeability/Equivalent evidence</u>	
PART S	<b>S. HEALTH SUPPLEMENT SUBSTANCE</b> S1. <u>General Information</u> S1.1 Nomenclature S1.2 Structure S1.3 General Properties S2. <u>Manufacture</u> S3. <u>Characterisation</u> S4. <u>Control of Health Supplement Substance</u> S4.1 Specification S4.2 Analytical Procedures S4.3 Validation of Analytical Procedure S4.4 Batch Analysis S4.5 Justification of Specification S5. <u>Reference Standards or Materials</u> S6. <u>Container Closure System</u> S7. <u>Stability</u>	√

**PART III: NON-CLINICAL DATA**

- Applicable to disease risk reduction claims  
(For new active ingredient, new combination of active ingredients and new dose)

**Table 15:**

No.	Field	Disease Risk Reduction Claims
1.	Overview of non-clinical testing strategy	√
	- nomenclature	
	- structure	
	- general properties	
2.	Pharmacology	√
	- related information (including academic literature) of pharmacology studies on the declared efficacy	
3.	Pharmacokinetics	√
	- related information (including academic literature) of pharmacokinetics studies on the declared efficacy	
4.	Toxicology	√
	- related information (including academic literature) of toxicology studies	
5.	Integrated overview and conclusions	√
6.	Other toxicity studies if available	√
7.	References	√
	- List of references used	

- All information must be provided in the following format/ table:

Study Title	Type of Study	Product (formulation)	Study Summary	Summary findings
			<ul style="list-style-type: none"> <li>- Study Design (e.g. case control, randomised placebo controlled, in vitro data, cohort study)</li> <li>- Dosage</li> <li>- Subject</li> <li>- Study Duration</li> <li>- Outcome parameters</li> </ul>	<p>Summary findings (Includes scientific details such as strength of evidence [e.g. p-values], conclusions, any shortcomings, etc.</p> <p>For traditional evidence include enough information to demonstrate relevance)</p>

**PART IV: CLINICAL DOCUMENTS**

- Applicable to disease risk reduction claims (for new active ingredient, new combination of active ingredients and new dose).

**Table 16:**

No.	Field	Disease Risk Reduction Claims
1.	Clinical overview	√
2.	Production Development Rational	√
3.	Overview of Biopharmaceutics	√
	- To include associated analytical methods	
4.	Overview of Clinical Pharmacology	√
	- Summary of clinical pharmacology studies	
5.	Overview of Efficiency	√
	- Summary of clinical efficacy	
6.	Overview of Safety	√
	- Summary of clinical safety	
7.	References	√
	- List of all clinical studies	
	- List of key literature references	
	- Published clinical papers	

- All information must be provided in the following format/table:

Forms of study	Sample size	Duration	Randomisation of groups	Endpoint	Statistical analysis of data
Randomised, controlled, and preferably blinded intervention studies	Must be justified and must involve sufficiently large number of subjects to estimate incidence and nature of potential adverse reactions	Must be justified and must be of sufficient duration to ensure no safety concerns with respect to long term use	All groups shall have comparable baseline values, particularly for those factors that are known to be, or may be, confounders or risk factors	As a decrease incidence of the disease or a reduction of a factor, or a surrogate thereof, of the many that contribute to the development of a disease	Methods to calculate the sample size, setting the power and the significance level at conventional 80% and $p < 0.05$ respectively shall be utilised  Meta-analysis shall combine only studies with similar design, populations, interventions and outcome measure

**ATTACHMENT 2**

**Table 17: Allowable claims for specific active ingredients in HS products**

Ingredients	Claims		
	General	Functional	Reduced Risk Reduction Claim
Alpha <sub>s1</sub> -Casein Tryptic Hydrolysate (Milk Protein Hydrolysate)	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Promotes/ Improves sleep quality</li> <li>Promotes relaxation</li> </ul>	
Beta Carotene	<ul style="list-style-type: none"> <li>Maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps in maintenance of growth, vision and tissue differentiation</li> </ul>	
Biotin	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps to metabolize fats and carbohydrates</li> </ul>	
Calcium	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps in the formation and maintenance of bones and teeth</li> <li>Claim for specific subgroup:                             <ul style="list-style-type: none"> <li>Additional calcium is required for pregnant and lactating women, when diet does not provide a sufficient daily intake to help in proper bone formation in developing baby</li> </ul> </li> </ul>	



Ingredients	Claims		
	General	Functional	Reduced Risk Reduction Claim
Chondroitin Sulphate	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Promotes healthy joint</li> </ul>	
Citicoline	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps to support healthy cognition</li> </ul>	
Coenzyme Q10	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Supports heart health</li> </ul>	
Collagen Hydrolysate	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Promotes healthy joints</li> </ul>	
Copper	<ul style="list-style-type: none"> <li>A factor in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps in the formation of red blood cell</li> </ul>	
Docosahexaenoic acid (DHA)	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Supports heart health</li> <li>Supports brain health</li> <li>Helps to maintain healthy level of triglycerides</li> <li>Supports eye health</li> <li>For fetal brain and eye development</li> </ul>	
Eicosapentaenoic acid (EPA)	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Supports heart health</li> <li>Supports brain health</li> <li>Helps to maintain healthy level of triglycerides</li> </ul>	
Fish Oil	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Supports joint health</li> </ul>	

Ingredients	Claims		
	General	Functional	Reduced Risk Reduction Claim
Folic Acid	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps in formation of red blood cell</li> <li>For fetal development</li> </ul>	<ul style="list-style-type: none"> <li>Helps prevent neural tube defects for women who are planning a pregnancy before conception and during 12 weeks of pregnancy at a dose of 400 mcg daily</li> </ul>
Fructooligosaccharides	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Promotes the growth of good bacteria living inside the gut</li> </ul>	
<i>Hovenia dulcis</i> Fruit	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>For maintenance of good liver health</li> </ul>	
Hyaluronic Acid	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Maintains healthy skin</li> </ul>	
Iodine	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps in the function of the thyroid glands</li> </ul>	
Iron	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps in the formation of red blood cell</li> </ul>	<ul style="list-style-type: none"> <li>Helps to prevent iron anemia</li> <li>Helps to prevent anemia due to iron deficiency</li> </ul>
L-Carnitine	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps to aid fat metabolism</li> </ul>	

Ingredients	Claims		
	General	Functional	Reduced Risk Reduction Claim
Lutein	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Supports eye health</li> </ul>	
Magnesium	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps the body to metabolize carbohydrate</li> </ul>	
Manganese	<ul style="list-style-type: none"> <li>A factor in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps to metabolize carbohydrates and proteins</li> </ul>	
Mixed Tocotrienols	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Supports brain health</li> </ul>	
<i>Monascus purpureus</i> (Red yeast rice)	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps maintain healthy cholesterol levels</li> </ul>	
Phosphorus	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps in the formation and maintenance of bones and teeth</li> </ul>	
Probiotics	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps to improve a beneficial intestinal microflora</li> <li>Helps support gastrointestinal health</li> </ul>	
<i>Vaccinium macrocarpon</i> (Cranberry) Fruit	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Supports healthy urinary tract</li> </ul>	

Ingredients	Claims		
	General	Functional	Reduced Risk Reduction Claim
Vitamin A	<ul style="list-style-type: none"> <li>Maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps to maintain growth, vision and tissue development</li> <li>Aids in maintaining the health of the skin and mucous membrane</li> <li>Aids in maintenance of eye health</li> </ul>	
Vitamin B1 (Thiamine)	<ul style="list-style-type: none"> <li>Helps to maintain good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps in maintenance of growth, vision and tissue differentiation</li> </ul>	
Vitamin B2 (Riboflavin)	<ul style="list-style-type: none"> <li>A factor in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps the body to utilize energy from food/ metabolize protein, fats and carbohydrates</li> <li>Claim for specific population subgroups:                             <ul style="list-style-type: none"> <li>-Additional amounts of Riboflavin are required during pregnancy and breast feeding when diet does not provide a sufficient daily intake</li> </ul> </li> </ul>	

Ingredients	Claims		
	General	Functional	Reduced Risk Reduction Claim
Vitamin B3 (Niacin)	<ul style="list-style-type: none"> <li>• A factor in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>• Helps normal growth and development</li> <li>• Helps the body in utilization of energy from food</li> </ul>	
Vitamin B5 (Panthothenic Acid)	<ul style="list-style-type: none"> <li>• Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>• Helps to metabolize fats and carbohydrates</li> </ul>	
Vitamin B6 (Pyridoxine)	<ul style="list-style-type: none"> <li>• A factor in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>• Helps the body to metabolize proteins, fats and carbohydrates</li> </ul>	
Vitamin B12 (Cyanocobalamine)	<ul style="list-style-type: none"> <li>• Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>• Helps in the formation of red blood cell</li> </ul>	
Vitamin C	<ul style="list-style-type: none"> <li>• Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>• For healthy bones, (cartilage), teeth, gums as well as general make-up of the body</li> <li>• Supports in immune health</li> </ul>	
Vitamin D	<ul style="list-style-type: none"> <li>• Maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>• Helps in normal development and maintenance of bones and teeth</li> <li>• Helps the body utilize calcium and phosphorus</li> <li>• Claim for specific population subgroups: Elderly people who are confined indoors</li> </ul>	

Ingredients	Claims		
	General	Functional	Reduced Risk Reduction Claim
Vitamin E	<ul style="list-style-type: none"> <li>Maintenance of good health</li> </ul>		
Vitamin K	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Support healthy bones</li> </ul>	
Zeaxanthin	<ul style="list-style-type: none"> <li>Helps in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Support eye health</li> </ul>	
Zinc	<ul style="list-style-type: none"> <li>A factor in maintenance of good health</li> </ul>	<ul style="list-style-type: none"> <li>Helps to metabolize carbohydrates, fats and protein</li> </ul>	

**Notes:**

- 1. The claims listed above will serve as a guide for the applicant. Other wording that bring similar meaning may be considered*
- 2. This list is not meant to be exhaustive and will be reviewed from time to time.*
- 3. The Authority will nonetheless conduct a detailed evaluation of the evidence included in the report to ensure that the health claim is substantiated.*
- 4. The Authority will be willing to consider review other than the listed above if the standards of evidence are consistent with those of the Authority.*
- 5. All references must be current.*