

GUIDELINES FOR REGULATION OF LOCAL TRADITIONAL / HERBAL MEDICINES FOR HUMAN OR VETERINARY USE IN UGANDA

Please send any comments you may have to Miss Dora Namyalo, Officer, Quality Management (dnamyalo@nda.or.ug), with a copy to Mr. Peter Ssali (pssali@nda.or.ug) by **13**th **May 2021.** Please use our attached QMS Template for Comments for this purpose.

Our Draft documents for comments are placed on the NDA website (https://www.nda.or.ug/e-resources-database/) under the "Draft Documents for Comments" link

National Drug Authority Head Office Rumee Towers Plot 19, Lumumba Avenue P. O. Box 23096 Kampala, Uganda

Tel: +256-417788100 E-mail: ndaug@nda.or.ug Website: http://www.nda.or.ug



Citation

These guidelines shall be cited as the "Professional Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda, Doc. No. DAR/GDL/033, Revision No. 0."

Adoption and approval of these professional guidelines

In EXERCISE of the powers conferred upon the Drug Authority by Section 5(i) of the National Drug Policy and Authority Act, Cap. 206 of the Laws of Uganda (2000 Edition), the Drug Authority hereby ADOPTS and ISSUES these Professional "Guidelines for Regulation of Local Traditional / Herbal Medicines for Human and Veterinary Doc. No. DAR/GDL/033 Revision No.: 0", made this day of 2021, that take effect on 1st March 2021

Signature

Dr. Medard Bitekyerezo

CHAIRPERSON

National Drug Authority

Kampala, Uganda

Doc. No.: DAR/GDL/033Revision Date:Review Due Date:Revision No.: 0Effective Date:Page 1 of 42



			_		
Ta	ble	Ωf	Col	nte	nte

43	ACRONY	MS 1			
44					
45	CHAPTER	RONE : INTRO	DUCTORY BACKGROUND		4
46	1.1		/ INTRODUCTION		
47	1.2		THESE GUIDELINES		
48	1.3	POLICY			5
49	1.4	SCOPE			5
50	1.5	CLASSIFICATIO	N OF TRADITIONAL MEDICINES		5
51	CHAPTER	R TWO : MANU	FACTURE OF HERBAL MEDICINE	PRODUCTS	8
52	2.1	GENERAL			8
53	2.2		AND COLLECTION OF MEDICINE		
54	2.3.	SANITATION AN	ND HYGIENE		8
55	2.4	Personal hygiene			9
56	2.5	PREMISES			9
57	2.6				
58	2.7				
59	2.8		ON		
60	2.9				
61	2.10		N AND VALIDATION		
62	2.11				
63	2.12		ALLS		
64	2.13		DUCTION AND ANALYSIS		
65	2.14		ON		
66	2.15				
67	2.16		ES IN QUALITY CONTROL DURIN		
68	2.17				
69			M REGULATORY REQUIREMENT		
70 71	REGISTR		ATION OF HERBAL MEDICINE PF KET/ COMMERCIAL USE		
	Doc. No.	: DAR/GDL/033	Revision Date:	Review Due Date:	
	I				1

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 2 of 42



		Save	

72	3.1	PHARMACEUTICAL INFORMATION	22
73	3.2	Monograph	22
74	3.3	Latin binomial synonym	22
75	3.4	Minimum requirements for safety and efficacy	
76	3.5	INFORMATION REQUIRED ON RAW MATERIALS FOR PRODUCTION	26
77	3.6	FINISHED PRODUCTS REGISTRATION	
78	CHAPTE	ER FOUR : LICENSING	28
79	4.1.	LICENSING OF HERBAL MEDICINE MANUFACTURING FACILITIES	
80	4.2.	LICENSING OF HERBAL MEDICINE OUTLETS	28
81	4.3.	RECORD KEEPING	29
82	4.4.	RESPONSIBLE PERSONS	30
83	4.5.	HERBAL MEDICINES	30
84	CHAPTE	ER FIVE: PROMOTION / ADVERTISEMENT OF LOCAL HERBAL MEDICINES	31
85	5.1.	APPLICATION FOR ADVERTISING	
86	5.3.	VETTING	33
87	5.4.	SAMPLES	
88	5.5.	AUDIO / VISUAL ADVERTS	
89	5.6.	SUPPLEMENTS	34
90	5.7.	PRODUCTION OF PROMOTIONAL MATERIALS (Packaging Material)	34
91	5.8.	EXHIBITIONS/SYMPOSIA/LAUNCHES	34
92	6.0	REFERENCES	36
93	Appendi	x 1:	
94 95	Appendi	x 2: FORM 6 - APPLICATION FORM FOR REGISTRATION OF LOCAL HERBAL MEDICINE PRODUCT	39
96 97	Appendi	x 3: APPLICATION FORM FOR NOTIFICATION OF LOCAL TRADITIONAL / HEF MEDICINES IN UGANDA	
98	DOCUM	IENT REVISION HISTORY	42
99			

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 3 of 42



ACRONYMS

101 102

103 ADR : Adverse Drug Reaction

104 BMR : Batch Manufacturing Records

105 GACP : Good Agricultural and Collection Practices

106 NDA : National Drug Authority

107 PM : Promotional Material

108 SOP : Standard Operating Procedure

109 SOP : Standard Operating Procedure

110 WHO: World Health Organization

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 1 of 42



DEFINITION OF TERMS

- 113 Advertising: In this guideline, advertising shall mean availing to the public useful,
- 114 properly detailed unbiased information intended to create awareness of either
- 115 traditional/herbal medicine or traditional herbal medicine combinations, to either
- prescribers, patients or both, of the existence of a traditional /herbal medicine or
- 117 combination thereof.
- 118 Crude plant material: Any part of a plant (e.g. roots, bark, leaves, floral parts, seeds,
- fruits, wood, bulbs), or plant exudates, or juice that has been harvested for use as a
- medicament.

112

- 121 Crude plant preparation: Any part of a plant or plants or mixtures thereof that has been
- made into a dosage form without undergoing any extraction or purification processes.
- 123 Finished Herbal product: Any preparation of crude herbal extracts, active principles have
- 124 not been separated into chemical entities.
- 125 Food/Dietary Supplement: Food/Dietary Supplement is a product taken by mouth that
- contains a dietary ingredient intended to supplement the diet.
- 127 Herbal based drugs: Any preparation whose active ingredient has been isolated from a
- 128 plant, and characterised chemically. They are not included in the categories mentioned
- and are regulated differently.
- 130 "Herbal medicine product" means a finished, labeled herbal medicine product that
- contain as active ingredients aerial or underground parts of plants, or other plant materials,
- or a combination of these, whether in the crude state or as plant preparations and which
- may contain conventional excipients in addition to the active ingredients and may also
- contain by tradition, natural organic or inorganic ingredients which are not of plant origin.
- "Herbal preparations" are obtained by subjecting herbal substances to treatments such
- 136 as extraction, distillation, expression, fractionation, purification, concentration or
- 137 fermentation. These include comminuted or powdered herbal substances, tinctures,
- extracts, essential oils, expressed juices and processed exudates.
- "Herbal substances" refers to all mainly whole, fragmented or cut plants, plant parts,
- algae, fungi, lichen, animal, rocks or such natural components in an unprocessed, usually
- dried form but sometimes fresh. Certain exudates that have not been subjected to a
- specific treatment are also considered to be herbal substances. Herbal substances are
- precisely defined by the plant part used and the botanical name according to the binomial
- system (genus, species, variety and author).
- "Herbal teas" consist exclusively of one or more herbal substance(s) intended for oral
- agueous preparations by means of decoction, infusion or maceration. The preparation is
- prepared immediately before use. Herbal teas are usually supplied in bulk form or in
- 148 sachets.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 2 of 42



Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

"Herbal Promotion" In this guideline, herbal promotion means a marketing method of creating awareness to the public about herbal medicine products by means of advertising in the media, be it radio, TV or newspaper, billboard or on vehicles, use of medical representatives, giving of free herbal product samples, sponsorship of symposia and other scientific meetings, carrying out post marketing studies and surveillance and dissemination of information obtained from such studies. Medicines containing plant material combined with chemically defined active substances, including chemically defined, isolated constituents of plants, are not considered to be herbal medicines.

Supplement: Is any article written about traditional/herbal medicines or company that is intended to be published in newspapers or magazines.

"Traditional medicine" It is the sum total of the knowledge, skill, and practices based on the theories, beliefs, and experiences indigenous to different cultures, whether explicable or not, used in the maintenance of health as well as in the prevention, diagnosis, improvement or treatment of physical and mental illness. (http://www.who.int/medicines/areas/traditional/definitions/en/).

Traditional medicine as defined above will be synonymous with: Traditional healing, Folk medicine, Alternative medicine, Indigenous medicine, ethnomedicine.

NOTE:

The practice of witchcraft and occult practices for the purpose of the NDPA&A is not included under traditional medicines.

NOTE:

Applicants who wish to have legal protection of their Intellectual Property Right (IPR) in order to acquire exclusive use to their patents, brand names, logos, labeling of their products etc., are advised to have the same registered with the Intellectual Property Registry located at the following address:

UGANDA REGISTRATION SERVICES BUREAU, REGISTRA GENERAL.S OFFICE, PLOT 5, GEORGE STREET, AMAMU HOUSE 5^{TH} FLOOR, P.O.BOX 6848, KAMPALA.

Doc. No.: DAR/GDL/033Revision Date:Review Due Date:Revision No.: 0Effective Date:Page 3 of 42



CHAPTER ONE

INTRODUCTORY BACKGROUND

1.1 BACKGROUND / INTRODUCTION

 human and veterinary medicines are available in Uganda; and to contribute towards their accessibility, cost effectiveness and appropriate use. It is against this background that these guidelines have been drawn to address the many issues of quality of herbal medicines that have arisen in the recent past.

National Drug Authority aims to ensure that only good quality, safe and efficacious

The Act established a National Drug Policy and National Drug Authority to ensure the availability, at all times, of essential, efficacious and cost-effective drugs to the entire population of Uganda, as a means of providing satisfactory healthcare and safeguarding the appropriate use of drugs.

The Vision of NDA: "A Uganda with safe, effective and quality medicines and health care products".

The Mission of NDA: "Promoting and protecting public health through the effective regulation of human and animal medicines and health care products".

These guidelines will mostly dwell on the manufacture, registration and sale of herbal medicines. The practice of traditional and complementary medicine will be handled under the auspices of the various (professional) organizations as will be stipulated in the Traditional & complementary medicine Act 2020

1.2 OBJECTIVES OF THESE GUIDELINES

These guidelines have been developed to provide guidance to applicants dealing in herbal medicinal products conform to regulatory requirements so as to foster proper monitoring of safety and efficacy issues involved. That is:

a) To guide Local Herbal manufacturers and NDA Inspectors on acceptable minimum requirements for the manufacture of herbal medicinal products;

b) To guide applicants on how to meet minimum requirements for registration of local herbal medicinal products;

c) To offer guidance on Licensing of herbal medicine sales outlets.

d) To put in place a safety and monitoring mechanism;

e) To guide on advertising of herbal medicinal products.

f) To collaborate with other institutions to ensure that guidelines on good Agricultural practices are followed

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 4 of 42



223

Applicants are advised to study these guidelines carefully and understand the sections included herein before attempting to approach National Drug Authority in matters of regulation.

224225226

227

1.3 POLICY

These guidelines are developed in accordance with the National Drug Policy and Authority Act Cap. 206;

230231

a) Section 35(1)(a): "the drug authority may scientifically examine any drug for the purposes of ascertaining efficacy, safety and quality of that drug".

233234

232

b) Section 2 (1) (g) (g) to intensify research in all types of drugs, including traditional Medicines

235236

237

c) Section 5(g): "The drug authority shall be charged with the implementation of the national drug policy and, in particular, but without derogation of the foregoing shall- encourage research and development of herbal medicines"

238239

d) Section 41(1): The National Drug Authority shall encourage research by persons carrying on research and development in herbal and other medicines and where appropriate take such medicines into production as a component of the drug supply.

240241

e) The National Drug Policy and Authority (Control of Publication and Advertisement Relating to Drugs) Regulations, 2014. 33; (Made under Sections 33 and 64 of the National Drug Policy and Authority Act, Cap 206).

244245246

242

243

1.4 SCOPE

248 249

247

These guidelines apply to regulation local traditional / herbal medicine products for Human and Veterinary Use in Uganda

250

1.5 CLASSIFICATION OF TRADITIONAL MEDICINES

251 **1.5.1 Category 1: Home remedies**

Medicines in this category are prepared by the traditional health practitioners or family members for treatment of individual patients and each has the following characteristics:

254255

252

253

 a) It is prepared in an extemporaneous (prepared there and then i.e. without previous planning but according to need) manner and according to traditional methods.

256257258

259

b) Its safety and efficacy should be justified by long period of use (At least for more than ten (10) years).

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 5 of 42



Safe Drugs Save Lives

260

261

262

263

264

265

266

267 268

269

270

271

272

273

274

275

276 277

278 279

280

281 282

283 284

285

286

287

288 289

290 291

292

293 294

- This category of medicines is not directly controlled by the national drug authority. However, the traditional health practitioners should be certified by the recognition/registration of their practice by the responsible body, community or any local Authority/Council.
- It could be used freely by local people. d)
- If the medicines in this category are introduced into the market (For commercial use), they must meet the regulatory requirements for the registration of traditional medicines specified under category 3.

1.5.2 Category 2: Galenicals

A Category 2 traditional medicines is popularly used in the community with commercial possibility and each possesses the following characteristics:

- It is traditionally used in a locality and is well known by the local population. a) in terms of both its mode of use and treatment:
- Its formulation is well known in a given locality and its preparation is b) according to established/traditional methods.
- Its safety and efficacy should be justified by long period of use. At least more c) than ten (10) years.
- However, if the medicines in this category are to go into the market (For commercial use), they have to meet the general requirements for registration of traditional medicines specified under category 3.

1.5.3 Category 3 Traditional medicines

Category 3A Researched- Semi Industrial Traditional Medicines 1.5.3.1

This category of medicines is developed based on scientific research and has the following characteristics:

- It is developed by research based on ethno (common cultural tradition, indigenous) medical use.
- b) The new formulation, dosage, dosage form and therapeutic use are based on research data.
- c) It may be produced at semi-industrial scale
- d) Its safety and efficacy are based on research data derived from standard scientific and clinical investigations.
- e) This category of medicines may be used within the research establishment.
- However, if it goes into the market (for commercial use), it has to meet the general minimum requirements for registration of traditional medicines.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 6 of 42



296297

298

299

300

301302

303

304

305

306 307

308309

310

311

312

313

314

315

316317

318

Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

1.5.3.2 Category 3B Researched – Industrial Traditional Medicines

This category of medicines is developed based on scientific research and has the following characteristics:

- a) It is developed by research based on ethno (common cultural tradition, indigenous) medical use.
- b) The new formulation, dosage, dosage form and therapeutic use are based on research data.
- c) It may be produced at Industrial scale
- d) Its safety and efficacy are based on research data derived from standard scientific and clinical investigations.
- e) This category of medicines may be used in the market (For commercial use) and has to meet the general minimum requirements for registration of traditional medicines

1.5.4 Category 4 Imported Traditional Medicines

These are imported traditional medicines each with the following characteristics:

- a) It originates from a foreign country.
- b) It should meet the definition of traditional medicines.
- c) It should be registered in the originating country.
- d) It should also meet the requirements for regulation of traditional medicines of National Drug Authority, Uganda.

Note: Guidelines for category 4 already exist in National Drug Authority (Guidelines On Registration Of Imported Herbal Medicine Products For Human Or Veterinary Use In Uganda) and this category is **not** included in the general minimum requirements

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 7 of 42



CHAPTER TWO : MANUFACTURE OF HERBAL MEDICINE PRODUCTS

2.1 GENERAL

Unlike conventional pharmaceutical products, which are usually prepared from synthetic materials through the application of reproducible manufacturing techniques and procedures, herbal medicine products are prepared from materials of plant origin which may be subject to contamination and deterioration, and may vary in composition and properties. The control of the starting materials, storage and processing assumes particular importance because of the often complex and variable nature of many herbal medicine products.

2.2 CULTIVATION AND COLLECTION OF MEDICINE PLANTS

- a) It is desirable that cultivation and collection of medicinal plants, as the starting materials for herbal medicines should follow the guidelines on Good Agricultural and Collection Practices (GACP) for Medicinal Plants. (In this respect WHO (GACP) will be followed).
- b) A lot of care should be taken during harvest on farms.
- c) Mix up of herbal materials (i.e crude plant material) and adulteration should be avoided during harvesting.
- d) The actual harvesting and transportation of raw materials should ensure that the quality is preserved since it will finally affect the final product.
- e) The herbal material should be promptly unloaded and unpacked on arrival at the processing place.
- f) During this operation, the herbal material should not be exposed to direct contact with soil.
- Materials should not be exposed directly to the sun (except in cases where there is a specific need, e.g. sun-drying)
- h) It should be protected from rain and any form of contamination such as heavy metals

2.3. SANITATION AND HYGIENE

In order to avoid damage and alterations caused by microbial organisms and to reduce contamination in general, a high level of sanitation and hygiene during manufacture is necessary as indicated below;

a) Water supply to manufacturing unit should be monitored, and, if necessary treated appropriately to ensure consistency of quality.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 8 of 42



Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

b) Care should be taken to choose appropriate methods for cleaning depending on the characteristics of herbal raw materials.

- c) Washing dried herbal raw materials with water, as a rule, is not appropriate. When their cleaning is necessary, air duster/air shower should be employed.
- d) Waste from the manufacturing unit should be routinely disposed off in the most appropriate manner so as to maintain a high degree of hygiene in the manufacturing area.
- e) Animal & Toilet facilities should be located away from drying and manufacturing areas.

2.4 PERSONAL HYGIENE

Personnel entrusted with handling of herbal materials, herbal preparations and finished herbal products should be required to have a high degree of personal hygiene.

- a) They should have received adequate training regarding their hygiene control.
- b) They should be without infectious diseases, or skin diseases.
- c) Clear and illustrative Standard Operating Procedures (SOPs) listing the basic hygiene requirements should be made available.
- d) Personnel must be protected from contact with toxic irritants and potentially allergenic plant materials by means of adequate protective clothing.
- e) They should wear suitable and fitting garments such as: gloves, caps, masks, work suits and shoes through the whole process from herbal material processing to product manufacturing.

2.5 PREMISES

2.5.1 Principle

Premises must be located, designed, constructed, adapted, and maintained to suit the operations to be carried out. Their layout and design must aim to minimize the risk of errors and permit effective cleaning and maintenance in order to avoid cross-contamination, build-up of dust or dirt, and, in general, any adverse effect on the quality of products. These guidelines may not limit on the size of the premises and number of rooms however the following sections should clearly be designated: Storage area, quarantine area, production area and drying area for raw materials that do not need direct sunlight. In addition to the above;

Doc. No.: DAR/GDL/033Revision Date:Review Due Date:Revision No.: 0Effective Date:Page 9 of 42



Safe Drugs Save Lives

387

388

389

390

391392

393

394

395396

397 398

399

400

401

402

403

404

405

406 407

408

409

410411

412

413

414

415

416

417

418

419 420

421

422 423

- a) Premises should be situated in an environment that, when considered together with measures to protect the manufacturing process, presents minimum risk of causing any contamination of materials or products.
 - b) Premises used for the manufacture of herbal medicine products should be suitably designed and constructed to facilitate good sanitation.
- c) Premises should be carefully maintained, and it should be ensured that repair and maintenance operations do not present any hazard to the quality of products. Premises should be cleaned and, where applicable, disinfected according to detailed written procedures.
- d) Electrical supply, lighting, temperature, humidity, and ventilation should be appropriate and such that they do not adversely affect, directly or indirectly, either the herbal products during their manufacture and storage, or the accurate functioning of equipment.
- e) Premises should be designed and equipped so as to afford maximum protection against the entry of insects or other animals.
- f) Premises should be as far as possible from animal houses

2.5.2 Auxiliary areas

- a) Rest and refreshment rooms should be separate from other areas. These should have clean drinking water and smoking of cigarettes, tobacco and sniffing of other substances should not be done in these areas.
- b) Facilities for changing and storing clothes and for washing and toilet purposes should be easily accessible and appropriate for the number of users. Toilets should be located away from production or storage areas. Toilets should have running water, soap and hand drying facilities.
- c) Maintenance workshops should be separated from production areas. Whenever parts and tools are stored in the production area, they should be kept in rooms or lockers reserved for that use.
- d) Animal houses should be well isolated from other areas, with separate entrance (animal access) ..

2.5.3 Storage areas

- a) Storage areas should be of sufficient capacity to allow orderly storage of the various categories of materials and products: starting and packaging materials, intermediates, bulk and finished products, products in quarantine, and released, rejected, returned, or recalled products.
- b) Storage areas should be designed or adapted to ensure good storage conditions. In particular, they should be clean and dry and maintained within acceptable temperature limits. Where special storage conditions are required

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 10 of 42



Safe Drugs Save Lives (e.g., temperature, humidity) these should be provided, checked, and 424 425 monitored. 426 c) Receiving and dispatch bays should protect materials and products from the weather. Reception areas should be designed and equipped to allow 427 containers of incoming materials to be cleaned if necessary before storage. 428 429 d) Where quarantine status is ensured by storage in separate areas, these areas must be clearly marked and their access restricted to authorized 430 personnel. Any system replacing the physical quarantine should give 431 432 equivalent security. 433 e) There should normally be a separate sampling area for starting materials. If sampling is performed in the storage area, it should be conducted in such a 434 435 way as to prevent contamination or cross-contamination. Segregation should be provided for the storage of rejected, recalled, or 436 returned materials or products. 437 Highly active materials, narcotics, other dangerous drugs, and substances 438 presenting special risks of abuse, fire, or explosion should be stored in safe 439 and secure areas. 440 h) Printed packaging materials are considered critical to the conformity of the 441 herbal products to its labeling, and special attention should be paid to the 442 safe and secure storage of these materials. 443 444 2.5.4 Weighing areas (may belong to either storage or production areas) The weighing of starting materials and the estimation of yield by weighing should 445 446 usually be carried out in separate weighing areas designed for that use, for example with provisions for dust control. 447 448 2.5.5 Production area 449 In order to minimize the risk of a serious medical hazard due to crosscontamination, dedicated and self-contained facilities must be available for 450 the production of particular herbal products. 451 452 The production of certain other products, such as some antibiotics, hormones, cytotoxic substances, and non-pharmaceutical products, should 453 not be conducted in the same facilities. 454 455 The manufacture of technical poisons, such as pesticides and herbicides, should not be allowed in premises used for the manufacture of herbal 456 457 products. 458 The principle of campaign working in the same facilities can be accepted provided that specific precautions are taken and the necessary cleaning 459 460 validations are made.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 11 of 42



Safe Drugs Save Lives

461 462

463464

465

466

467

468

469

470

471 472

473474

475

476 477

478

479

480

481

482

483

484

485

486 487

488 489

490

491

492

493

494

495

496

497 498

- e) Premises should preferably be laid out in such a way as to allow the production to take place in areas connected in a logical order corresponding to the sequence of the operations and to the requisite cleanliness levels.
- f) The adequacy of the working and in-process storage space should permit the orderly and logical positioning of equipment and materials so as to minimize the risk of confusion between different herbal products or their components, to avoid cross-contamination, and to minimize the risk of omission or wrong application of any of the manufacturing or control steps.
- g) Where starting raw material, primary packaging materials and intermediate or bulk products are exposed to the environment, interior surfaces (walls, floors, and ceilings) should be smooth and free of cracks and open joints; should not shed particulate matter, and should permit easy and effective cleaning and, if necessary, disinfection.
- Pipe work, light fittings, ventilation points, and other services should be designed and sited to avoid the creation of recesses that are difficult to clean. As far as possible, for maintenance purposes, they should be accessible from outside the manufacturing areas.
- i) Drains should be of adequate size and equipped to prevent back-flow. Open channels should be avoided where possible, but if they are necessary they should be shallow to facilitate cleaning and disinfection.
- j) Production areas should be effectively ventilated, with air-control facilities (including control of temperature and, where necessary, humidity and filtration) appropriate to the products handled, to the operations undertaken, and to the external environment. These areas should be regularly monitored during production and non-production periods to ensure compliance with their design specifications.
- k) Premises for the packaging of herbal products should be specifically designed and laid out so as to avoid mix-ups or cross-contamination.
- Production areas should be well lit, particularly where visual on-line controls are carried out.

2.5.6 Quality control area

- a) Quality control laboratories should be separated from production areas. Areas where biological, microbiological, or radioisotope test methods are employed should be separated from each other.
- b) Control laboratories should be designed to suit the operations to be carried out in them. Sufficient space should be given to avoid mix-ups and crosscontamination. There should be adequate suitable storage space for samples, reference standards (if necessary, with cooling), and records.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 12 of 42



Safe Drugs Save Lives

- c) The design of the laboratories should take into account the suitability of construction materials, prevention of fumes, and ventilation.
- d) A separate room may be needed for instruments to protect them against electrical interference, vibration, contact with excessive moisture, and other external factors, or where it is necessary to isolate the instruments.

2.6 EQUIPMENT

Since processing of herbal materials may generate dust or material which can be easily subject to pest-infestation or microbiological contamination and cross contamination, cleaning of equipment is particularly important.

Vacuum or wet cleaning methods are to be preferred. If wet cleaning is applied, the equipment should be dried immediately after cleaning in order to avoid the growth of microorganisms. Compressed air and brushes should be used with care and avoided if possible, as they increase the risk of product contamination.

Wooden equipment should not be used unless tradition demands the use of wooden material. Where it is necessary to use traditional equipment (such as wooden implements, clay pots, pallets, hoppers, e.t.c.), they should be restricted [dedicated] for that purpose. When such equipment is used, it is advised not to come into direct contact with chemicals and contaminated material. If it is unavoidable, special consideration must be given to their cleaning as wooden material may retain odour and colour and is easily contaminated.

2.7 MATERIALS

All incoming materials should be quarantined and stored under appropriate conditions taking into account the degradable character of herbal materials and herbal preparations.

2.8 DOCUMENTATION

This covers documents relating to specifications and processing instructions which should be kept at the manufacturing premise.

2.8.1 Specifications for starting materials, herbal preparations and finished herbal products

Specifications for starting herbal materials, for herbal preparations and finished herbal products are primarily intended to define the quality rather than to establish full characterization; and should focus on those characteristics found to be useful in ensuring the safety and efficacy. Consistent quality for herbal medicines (finished herbal products) can only be assured if the starting herbal materials are defined in a rigorous and detailed manner. For some herbal materials detailed information may

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 13 of 42



be needed on aspects of their collection or agricultural production. i.e season of harvesting

538539540

541

537

The specifications for herbal plant materials should as far as possible include the following:

542543

544

 a) The botanical name, with reference to the authors (This should be accompanied by a certificate of verification or a document from the National Herbarium (The Makerere University Herbarium)

545 546

b) Details of the source of the plant (country or region of origin, and where applicable, method of cultivation, time of harvesting, collection procedures, possible pesticides used, etc.).

547548

c) Part of the plant used.

549

d) The drying system.

550551

e) A description of the plant material based on visual and/or microscopical/macroscopic inspection.

552553

f) Suitable identification tests including, where appropriate, identification tests for known active ingredients or markers.

554555

g) The assay, where appropriate, of constituents of known therapeutic activity or markers.

556557

h) Methods for the determination of possible pesticide contamination and the acceptable limits for such contamination.

558559

i) Test results for toxic metal and other contaminants, foreign materials, and adulterants.

560

j) Test results for microbial contamination and aflatoxins.

561 562 Method used to reduce fungal/microbial contamination or other infestation should be documented.

563564565

 Specifications for starting materials (and also of primary or printed packaging materials) should include, if applicable, reference to a pharmacopoeia monograph.

566567

m) If the herbal material for processing does not comply with its quality specifications, the rules that apply for its rejection, and storage and disposal of the rejected herbal material should be included.

568569

570

2.8.2 Qualitative and quantitative requirements

These should be expressed in the following ways:

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 14 of 42



Safe Drugs Save Lives

572

573

574

575

576577

578

579

580

581

582

583

584

585

586 587

588

589

590

591

592

593594

595

596597598

599600

601

602

603

604 605

571	a)	Herbal	plant	material
0,1	~,			

- i. The quantity of plant material must be stated; or
- ii. The quantity of plant material may be given as a range, corresponding to a defined quantity of constituents of known therapeutic activity.

Example:

Name of active ingredient Quantity

Sennae folium (a) 900 mg or (b) 830–1000 mg, corresponding to 25 mg of hydroxyanthracene glycosides, calculated as sennoside B

- b) Plant preparation:
 - i. The equivalent quantity or the ratio of plant material to plant preparation must be stated (this does not apply to fatty or essential oils); or
- ii. The quantity of the plant preparation may be given as a range, corresponding to a defined quantity of constituents with known therapeutic activity (see example).

The composition of any solvent or solvent mixture used and the physical state of the extract must be indicated.

If any other substance is added during the manufacture of the plant preparation to adjust the level of constituents of known therapeutic activity, or for any other purpose, the added substance(s) must be described as "other ingredients" and the genuine extract as the "active ingredient".

Example:

Name of active ingredient Quantity

Sennae folium (a) 125 mg ethanolic extract (8: 1) or 125 mg ethanolic extract, equivalent to 1000 mg of Sennae folium or (b) 100–130 mg ethanolic extract (8: 1), corresponding to 25 mg of hydroxyanthracene glycosides, calculated as sennoside B

Other ingredient

Dextrose 20–50 mg

2.8.3 Specifications for the finished herbal products

- a) Microbiological contamination and tests for other toxins
- b) Uniformity of weight (for tablets, single-dose powders, suppositories, herbal tea in sachets and capsules, e.t.c.), disintegration time (for tablets, capsules, suppositories and pills), hardness and friability (for example, uncoated tablets),

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 15 of 42



Safe Drugs Save Lives

viscosity (for internal and external fluids), consistency (semisolid preparations), and dissolution (tablets or capsules), if applicable.

- c) Physical appearance such as colour, odour, form, shape, size and texture
- d) Loss on drying or water content
- e) Identity tests, qualitative determination of relevant substances of the plants (e.g. finger-print chromatograms)
- f) Quantification of relevant active ingredients if they are identified and the adequate analytical methods are available
- g) Limit tests for residual solvents

The control tests for the finished product must be such as to allow the qualitative and quantitative determination of the active ingredients. If the therapeutic activity of constituents is known, this must be specified and determined quantitatively. When this is not feasible, specifications must be based on the determination of markers. If either the final product or the preparation contains several plant materials and a quantitative determination of each active ingredient is not feasible, the combined content of several active ingredients may be determined. The need for such a procedure must be justified.

2.8.4 Specifications for Herbal Preparations

The specification of herbal preparations consists of relevant items of the specification of herbal materials of finished herbal products outlined above.

2.8.5 Processing instructions

The processing instructions should list the different operations to be performed on the plant material, such as drying, crushing and sifting. They should also include the temperatures required in the drying process, and the methods to be used to control fragments or particle size. Instructions on sieving or other methods of removing foreign materials should also be given. Details of any process, such as fumigation, used to reduce microbial contamination, together with methods of determining the extent of such contamination, should also be given.

For the production of plant preparations, the instructions should specify any vehicle or solvent that may be used, the times and temperatures to be observed during extraction, and any concentration methods that may be required.

2.9 PERSONNEL

Production and release of herbal medicines should be under the authority of a person who has been trained in the specific features of the processing and quality control of herbal materials, herbal preparations and finished herbal products.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 16 of 42



People with accrued knowledge in the production of herbal medicines should be allowed to practice as their knowledge is being assessed and documented.

2.10 QUALIFICATION AND VALIDATION

For practical purposes validation has been left out intentionally in these guidelines. However where necessary the National Drug Policy and Authority (Guidelines on Good Manufacturing Practice For Medicinal Products Doc. No.: INS/GDL/001) should be consulted.

2.11 COMPLAINTS

A manufacturing facility / premise should have a system for handling market complaints. There are two basic types of complaints; product quality complaints and adverse reactions/events. Product quality complaints may be caused by problems such as faulty manufacture, product defects or deterioration as well as adulteration of the herbal material.

a) These complaints should be recorded in detail and the causes thoroughly investigated. There should be a written procedure to describe the action to be taken.

b) A register should be maintained where reports of Adverse Drug Reactions (ADR) are recorded. Investigations should be conducted to find if the ADR is due to poor quality problem and whether such a problem is already reported in the literature or it is a new observation.

c) Complaint records should be reviewed regularly to detect recurring problems requiring special attention and possible recall of marketed products

National Drug Authority should be kept informed about any complaints leading to recall or restriction on supply and the records should be available for inspection.

2.12 PRODUCT RECALLS

 The products recall procedure should be related to and depend very much on the NDA recall procedures. An SOP should be available and observed for storage of recalled herbal medicine products in a secure area, while their investigation is ongoing.

2.13 CONTRACT PRODUCTION AND ANALYSIS

 Where contract production or contract analysis is to take place the premises must be inspected and licensed by NDA. The details of the contract should be easily accessible

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 17 of 42



SELF INSPECTION

At least one member of the self-inspection team should possess a thorough knowledge on herbal medicines.

684 **TRAINING** 2.15 685

681

682

683

686

687 688

689

690

691 692

693

694 695

696 697

698

699 700

701

702

703

704

705

706

707

708 709

710 711

712

713 714

It is desirable that personnel involved in production and Quality Control should have appropriate training in relevant fields such as pharmaceutical technology, taxonomic botany, phytochemistry, pharmacognosy, hygiene, microbiology, and related expertise (such as traditional use of herbal medicines).

2.16 GOOD PRACTICES IN QUALITY CONTROL DURING PRODUCTION

2.16.1 General

There should be a quality control department independent of other departments with the overall responsibility of ensuring that safe and good quality products are consistently manufactured.

2.16.2 Premises

There should be a separate room with adequate space designed for the laboratory with proper ventilation and running water.

2.16.3 Personnel

- a) The department should preferably be under the authority of a person with appropriate qualifications and experience
- b) He/she will be a person with a dispensing background, chemist or pharmacist.
- c) For small scale manufacturers it may be a person of basic science knowledge i.e. Diploma in Botany, laboratory technology or pharmacy.

2.16.4 Equipment

The laboratory should have capacity to carry out basic tests on the raw materials and the finished products. This requirement applies to manufacturers of syrups, solutions, and suspensions.

It is desirable for all manufacturers using powdered raw materials or producing powdered products to have the following: moisture analyzer, oven, and analytical balance besides other basic equipment. In the event when there is no capacity the services can be out sourced.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 18 of 42



721

722723

724

725

726

727

728

729

730

731

732733

734

735

736

737738

739

740

741742

743

744

745

746

747

748

749

750

751

752

Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

719 **2.16.5 Documentation**

In addition to quality control documents, Quality Control and Quality Assurance will review and approve all documents used in production. This includes but is not limited to;

- a) Batch Manufacturing Records (BMR)
- b) SOPs
- c) Sampling and testing procedures for raw materials and finished products
- d) Records of the results of inspection and testing of materials against specifications.

2.17 PROCESSES

2.17.1 Sampling

This shall be done in a manner that ensures that a representative sample is drawn for analysis.

Sufficient samples shall be retained to prompt future examination of products if necessary, and also aid monitoring of any changes in pH, color and smell over time.

2.17.2 Testing / Analysis

- a) The identity and quality of herbal material, herbal preparations and of finished herbal products should be tested as described in the Quality control methods for herbal materials; ref: WHO guidelines for assessing quality of herbal medicines with reference to contaminants and residues; 2007.
 - b) Herbal material, herbal preparations (including extracts) and finished herbal products can be categorized as follows:
 - i. the active constituents are identified, and may be quantified as such;
 - ii. the main group of components that contribute to the activity (i.e. the constituents with known therapeutic activity) are known and can be quantified as a total (for example, essential oils) or calculated using a representative substance belonging to the group (for example, flavonoids);
 - iii. the former are not identified and/or are not quantifiable, but marker substances are;
 - iv. others, where quantification (i.e. specification for a certain quantity of a constituent) is not applicable or feasible.
 - c) Identification methods may be based on:
 - i. physical and, if applicable, macroscopic (organoleptic) and microscopic tests;

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 19 of 42



Safe Drugs Save Lives

- ii. chromatographic procedures (TLC, HPLC, HPTLC or gas-liquid chromatography (GLC)), spectrometric techniques (ultraviolet visible (UV-VIS), IR, nuclear magnetic resonance (NMR), MS); and/ or;
- iii. chemical reactions.
- d) The identification test methods should be specific for the herbal material, herbal preparation or finished herbal product and should ideally be capable of discriminating between the required herbal material and likely potential substitutes or adulterants.
- e) Reference samples of herbal materials should be made available for use in comparative tests, for example, visual and microscopic examination and chromatography.
- f) The development and execution of quality control methods for herbal materials, herbal preparations and the finished herbal products should be in line with subsection 2.8.3 (Specifications). Tests and quality requirements that are characteristic of the given analyte should be selected.
- g) Where the facility does not have capacity to analyze its raw materials and products, it must have an agreement with at least one external quality control laboratory. In such a case a memorandum of understanding with the laboratory shall be submitted as a requirement for registration. Copies of certificates of analysis from the contracted laboratory for raw materials and final products analysed shall be kept by Quality Control Department

2.17.3 Stability studies

- a) If the expiry date for a herbal material or herbal preparation is given, some stability data to support the proposed shelf life under the specified storage conditions should be available.
- b) Finished herbal products may contain several herbal materials or herbal preparations, and it may not be feasible to determine the stability of each active ingredient. Moreover, because the herbal material, in its entirety, is regarded as the active ingredient, a mere determination of the stability of the constituents with known therapeutic activity will not usually be sufficient. Chromatography allows tracing of changes that may occur during storage of a complex mixture of biologically active substances contained in herbal materials. It should be shown, as far as possible, for example, by comparisons of appropriate characteristic/fingerprint chromatograms, that the identified active ingredient (if any) and other substances present in the herbal material or finished herbal product are likewise stable and that their content as a proportion of the whole remains within the defined limits.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 20 of 42



Safe Drugs Save Lives

JRAFF GUI

- c) The methods used for the stability studies should be as similar as possible to those used for quality control purposes.
- d) For identified active ingredients, constituents with known therapeutic activity and markers, widely used general methods of assay, and physical and sensory or other appropriate tests may be applied.
- e) To determine the shelf life of finished herbal products, strong emphasis should also be placed on other tests mentioned in subsection 2.8.3 (Specifications), such as moisture content, microbial contamination and general dosage form control tests.
- f) The stability of preservatives and stabilizers should be monitored. When these are not used, alternative tests should be done to ensure that the product is self-preserving throughout its shelf life.
- g) Samples used for stability studies should be stored in the containers intended for marketing.
- h) The first three commercial production batches should be included in the stability-monitoring programme to confirm the expiry date. However, where data from previous studies, including pilot batches, show that the product is expected to remain stable for at least two years, fewer than three batches can be used. The testing frequency depends on the characteristics of the herbal medicinal products and should be determined on a case-by-case basis.
- The protocol for ongoing stability studies should be documented. This would normally involve one batch per year being included in a stability monitoring programme.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 21 of 42



Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

Safe Drugs Save Lives CHAPTER THREE: MINIMUM REGULATORY REQUIREMENTS FOR 815 816 REGISTRATION / NOTIFICATION OF HERBAL MEDICINE **PRODUCTS FOR INTRODUCTION** INTO THE MARKET/ 817 818 **COMMERCIAL USE** 819 PHARMACEUTICAL INFORMATION 820 3.1 The following pharmaceutical information should be made available at the time of 821 registration/notification: 822 823 a) Product name: 824 b) Name of the active or main constituent/plant source of the active ingredient; c) Indications: 825 d) Dosage forms e.g. Tablet, powder, ointment, capsule, syrup, powder, liquid; 826 827 e) Strength of dosage form, where applicable; 828 f) Excipients e.g. Starch, honey; 829 g) Major adverse effects/side effects; 830 h) Storage conditions; 831 i) Shelf life/expiry date: 832 i) Pack sizes or weight; and k) Name and address of manufacturer and phone contact, email if available. 833 3.2 **MONOGRAPH** 834 A monograph will be required in the following cases and must be availed to NDA 835 a) Where a drug is reputed to have adverse effects and/ or the history of the use 836 of the drug is not well known in Uganda. 837 b) The active or main constituents of the drug is known 838 839 3.3 LATIN BINOMIAL SYNONYM 840 The genus and species, and, where applicable, variety be stated (Latin binomial 841 synonym) for the plant or plants (being the source of herbal medicines) should be specified. In case of failure to ascertain the botanical identity of the plant, the name 842 843 in any of the local languages in Uganda should be supplied in addition to a herbarium specimen (Voucher number) verified by the National Herbarium should 844 be provided. 845

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 22 of 42



3.4 MINIMUM REQUIREMENTS FOR SAFETY AND EFFICACY

849 **3.4.1 Safety**

848

850851

852

853854

855

856857

858

859

860

861862

863

864

865

866

867

868

869

870

871

872873

874

875

876

877

878

879

880

a) Botanical identification/authentication

Name in Latin (genus and species) of the plant species, local names and family

b) Ethno-medical Information (Literature search/database)

- Information regarding the safety and efficacy of the product.
- ii. Documented proof of long period use should be taken into consideration when assessing safety. Detailed toxicological studies, documented experience of long term use without evidence of safety problems should form the basis of the risk assessment.

c) Toxicity Studies

If the product has been traditionally used without demonstrated harm, no specific restrictive regulatory action will be undertaken unless new evidence demands a revised risk-benefit assessment.

- i. If a toxicological risk is known, it is mandatory to conduct standard toxicological studies and data derived from such studies should be appropriately documented and submitted to the regulatory authorities.
- ii. Toxicity data should be submitted if the long term traditional use cannot be documented or if there are doubts on safety.
- iii. The absence of any reported or documented side-effects is not an absolute assurance of safety for traditional medicines; therefore some toxicological tests may be necessary.
- iv. Products that require acute toxicity studies should be submitted with a report.
- v. Tests include: (Can be availed according to guidelines by WHO) Acute toxicity, Immunotoxicity (e.g. tests for allergic reactions), genotoxicity, carcinogenicity and reproductive toxicity through long term use.
- **d) Dosage** (**Posology**): Therapeutic prescribed amount of the medicine to be administered to the patient. The measures and age group should be included.
- e) Dosage forms in which the drug is presented, e.g. solution, liquid, suspension, emulsion, ointment, suppository, tablet, capsule, etc.
- f) Adverse reactions (Side effects): an unwanted effect that was not intended but happens when product is taken e.g. a subject suffers loose motion after taking an antimalarial product.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 23 of 42



914

High claims

treats/ cures/manages

Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

Safe Drugs Save Lives g) Contraindications: A condition which makes a particular treatment or procedure 881 882 inadvisable or against should be mentioned. 883 h) Precautions: Measures that should be taken in case of pregnancy, lactation, renal and hepatic failure etc. during use of the product. 884 885 3.4.2 Efficacy 886 For evaluation of traditional medical preparations, the following evidence shall be 887 supplied 888 a) Assessment of efficacy 889 890 Therapeutic activity refers to the successful prevention, diagnosis and treatment of physical and psychological illness; improvement of symptoms of illness; as well as 891 beneficial alteration or regulation of the physical and mental status of the body and 892 mind. 893 Requirements for proof of efficacy should depend on: 894 895 The kind of indications for use, Individual experiences recorded in reports from physicians, applicable to 896 ii. 897 category 3. Experiences from traditional practitioners or 898 iii. Experiences from treated patients. 899 ίV. Clinical evidence will be required in cases where traditional use has not 900 ٧. been documented. Same applies to new formula consisting of traditionally 901 used plants but with new appropriate indications. 902 Summary of Claims – Traditional Herbal medicine 903 vi. 904 b) General health maintenance: General health: Problems related to health conditions are those which, with time, could recover spontaneously, even without 905 any medical intervention, e.g. loss of appetite. 906 907 c) Medium claims reduction of risk of a disease / 908 ì.X disorder 909 ii. relief of symptoms 910 iii. aids / assists in the management of a named symptom/ disease 911 ίV. prevents/stops/ slows down the progress of a mild/ self-limiting disease or medical condition 912 V.

Doc. No.: DAR/GDL/033Revision Date:Review Due Date:Revision No.: 0Effective Date:Page 24 of 42

any disease/disorder



915 adjunct / to complement any treatment e) Active ingredients (where applicable) 916 The preparation of these medicines should be standardized to contain a 917 defined amount of the active ingredients. 918 919 Where more than one active ingredient is contained in a product, one of ii. the ingredients can be used as the reference. However, all the active 920 ingredients contained in the product should be mentioned. 921 922 In cases where it is not possible to identify the active ingredients, the iii. whole traditional medicines may be considered as one active ingredient. 923 **Evaluation of documented evidence of efficacy** 924 f) The following shall be considered while evaluating efficacy 925 i. Scientific literature validated by clinical trials 926 ii. Pharmacopoeias and other relevant documents 927 928 iii. Unpublished (Gray) literature and ethnographic reports Note: NDA Guideline for Clinical Research of herbal medicines. 929 **Traditional** medicine labels shall include the following information 930 931 i. Name of product; 932 ii. Quantitative list of main active ingredients including the common English name of the relevant plants. If the product is from abroad, plant name should 933 be mentioned along with Latin name; 934 935 iii. Dosage form; iv. Therapeutic indications: 936 v. Dosage: the minimum and maximum as well as average dosage levels, must 937 be stated (if appropriate, specified for children and the elderly); 938 939 vi. Over-dosage information; vii. Contraindications, warning, precautions, and major drug interactions in as far 940 as these incidences are available; 941 942 viii. Manufacturing date; 943 ix. Expiry date; 944 x. Lot/Batch number; xi. Name of manufacturer or company with full address; 945 946 xii. Storage conditions; and

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 25 of 42



xiii. Main vehicle/base 947 948 As part of registration procedure the following information should also be 949 submitted:-950 INFORMATION REQUIRED ON RAW MATERIALS FOR PRODUCTION 951 3.5 952 Identification of Plant (s) 953 i. Definition: Latin name of the plant (Family, Genus, species, varieties). 954 ii. Synonyms: legitimate Latin binomial synonyms for the plant. iii. Selected vernacular names: a selective list of vernacular names for the 955 956 plant. iv. Geographical distribution: cultivated or wild natural distribution in the 957 958 country or region, imported, etc., v. Description: a brief description of the living plant, this may include 959 960 photographs and/or drawings. Plant part used and condition of the plant material 961 b) i. General appearance 962 ii. Organoleptic properties 963 964 iii. Microscopic characteristics iv. Powdered plant material 965 **General identity tests** 966 c) Relevant Chemical, biological or physical assays 967 **Mandatory Purity tests** 968 d) 969 i. Microbiological (for E-coli, Aspergillus, Salmonella) Chemical 970 971 iii. Loss on drying iv. Swelling index (where applicable) 972 973 v. Pesticide residues (where applicable) 974 vi. Heavy metals (Mercury and Lead) 975 vii. Radioactive residues (where applicable) 976 viii. Other purity tests (where applicable)

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 26 of 42



Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

977 3.6 FINISHED PRODUCTS REGISTRATION 978 a) Qualitative and quantitative composition of the active components 979 b) Quantity and type of excipients c) Quantification of the active ingredient 980 d) Description of the process of manufacture 981 982 e) Specifications of quality of the finished product f) Methods of analysis 983 984 g) Stability studies h) Licensing of manufacturing premises by National Drug Authority 985 986 i) Packaging

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 27 of 42



988 989

CHAPTER FOUR: LICENSING

990 991

992 993

994

995

996 997

998

999

4.1. LICENSING OF HERBAL MEDICINE MANUFACTURING FACILITIES

A license shall be issued to manufacturers that will conform to manufacturing guidelines of herbal medicines as laid down by NDA.

4.2. LICENSING OF HERBAL MEDICINE OUTLETS

Inspections of herbal medicine outlets shall be carried out using NDA Inspectorate guidelines and the applicants for licenses shall have to meet the following NDA requirements:

4.2.1 Facilities

All facilities at which herbal medicines and /or preparations are handled, offered, marketed, or displayed shall:

1000 1001 1002

1003

1004

1005

1006

1007

1008

1009

10101011

1012

1013

1018

1019

1020

1021

- a) Be constructed with materials of permanent nature;
- b) Be of adequate size avoiding congestion of stocks (i.e. 8-10m²);
- c) Have shelves for display of herbal products and a sales counter;
- d) Be properly constructed to facilitate cleaning, maintenance, and other operations;
- e) Have adequate lighting, ventilation, and a proper ceiling;
- Have a quarantine area for storage of medicines that are outdated, damaged, deteriorated, misbranded, or adulterated, or that are in immediate or secondary containers have been opened;
- g) Be maintained in a clean and orderly manner;
- h) Be free from infestation by insects, rodents, birds, or vermin of any kind;
- i) Have hand washing facilities and drying towel; and
- 1014 j) Not be used for other activities (e.g. occult practices, tailoring, accommodation)

NOTE: Where a herbal medicinal outlet is compounding a separate dedicated room should be identified.

1017 **4.2.2 Stores**

- a) Operators of herbal medicine sales outlets should have enough storage areas.
- b) All herbal medicines shall be stored at appropriate temperatures and under appropriate conditions in accordance with requirements, if any, on the labels of such medicines.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 28 of 42



Safe Drugs Save Lives

1052

1053

1054

iv.

٧.

The quantity supplied;

Batch No.

	Safe Drugs Sa	ve Lives
1022 1023	c)	If no storage requirements are established for the herbal preparation, the medicine may be held at ambient temperature.
1024 1025 1026	d)	In case of medicines that require controlled temperatures, as defined in an official compendium, in order to ensure that its identity, quality, and purity are not adversely affected, there must be facilities for cold storage.
1027 1028	e)	The storage area should be well ventilated and be equipped in such a way as to give protection against the entry of insects or other animals especially rodents.
1029	f)	Products should be stored off the floor on pallets.
1030	4.2.3 Pa	ckaging Containers
1031	a)	Herbal medicine should be kept in suitable containers
1032 1033	b)	No reuse of primary containers (e.g used mineral water bottles are picked and used to package the medicines and then sold in the market)
1034	4.3. RE	CORD KEEPING
1035 1036 1037	all	rbal medicine distributors shall establish and maintain inventories and records of transactions regarding the receipt and distribution or sale of medicines. These ords shall include the following information:
1038	á	a) Details of medicines procured. This should include:
1039 1040		 The source of supply of the medicines, including the name and principal address of the seller or transferor;
1041		ii. Date of purchase;
1042		iii. The identity/ name and quantity of the medicines received;
1043		iv. Batch/Lot numbers and expiry dates; and
1044		v. The dates of receipt
1045 1046	ŀ	For wholesalers and importers of herbal products, address of the supplier from which the medicines were shipped should be indicated.
1047 1048	(c) In the case of medicines or preparations that are sold and distributed or disposed of to other outlets, the records shall show:
1049	0	i. Date of disposition;
1050		ii. Persons to whom medicines have been supplied;
1051		iii. The identity/name of medicines;

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 29 of 42



Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

4.4. RESPONSIBLE PERSONS

Herbal medicine distributors or sellers shall indicate the person in charge of handling and selling of these medicines. Such people should be knowledgeable about the medicines and therefore be able to provide all the necessary technical and medical advice required by the clients or patients.

The in-charge shall be a registered herbalist or person with qualifications in the medical or relevant field, who will have to prove their skills.

4.5. HERBAL MEDICINES

All such medicines should be either registered or notified with NDA.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 30 of 42



CHAPTER FIVE: PROMOTION / ADVERTISEMENT OF LOCAL HERBAL MEDICINES

1066 1067 1068

It's important to note that it is a requirement for all promotional materials regarding herbal medicine, to be submitted to NDA for vetting and subsequent approval prior to publication.

1069 1070 1071

1076

1078

1083 1084

1085

- This chapter is intended for:
- a) Herbal medicine Regulators;
- b) All local herbalists and local herbalist organization / Associations;
- 1074 c) All local herbal medicine manufacturers;
- 1075 d) All media houses;
 - e) Importers and exporters of local herbal medicines;
- 1077 f) Local Herbal medicine outlets i.e. the owners and directors:
 - g) Sales/marketing representatives of local herbal medicine products; and
- h) Herbalists / Persons who may wish to make the public aware of their locations and /or of the premises.

The chapter targets all promotional material (PM) and activities, which may include but are not limited to:

- a) Any form of audio, visual and /or written material intended to be published in the media
- b) Any written articles or supplements about herbal medicine companies.
- 1086 c) Talk shows
- d) Sponsoring of local herbal medicine, symposiums exhibitions
- e) TV sponsorship of programs e.g. news, health talk/entertainment shows
- 1089 This chapter shall apply to the following categories of items
- 1090 a) Local Herbal medicines
 - b) Public health herbal and herbal cosmetics
- 1092 c) Local Nutritional herbal supplements

1093 1094

1095

1091

Note: National Drug Authority shall vet traditional / Herbal medicine information and / or adverts including those originating from Ministry of Health. These guidelines shall not apply to practices e.g. reflexology, acupuncture, spiritualism, traditional practices, etc.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 31 of 42



5.1. APPLICATION FOR ADVERTISING

1100 1101

1102 1103

1099

5.1.1 All applications for local herbal medicine advertising shall be made in writing by the herbalists / directors in charge, or any person responsible for the local herbal medicine products' application.

1104 1105 5.1.2 The application shall be addressed to;

110:

The secretary to the Authority,

1106

1109 1110

1111

1107 National Drug Authority, 1108 Secretariat Office Kampala

P. O Box 23096, Kampala, Uganda

Plot 19 Lumumba Avenue (opposite TWED plaza)

Tel: +256 417 788 100/1 +256 417 788 124 / 041 788 129

Email: ndaug@nda.or.ug Website: www.nda.or.ug

111211131114

REGIONAL OFFICES-.

Applicants in different regions can charnel their applications through the National Drug Authority Regional Offices.

1116 1117

1115

Central regional offices Kampala Plot 1-2 Jinja Road Premier Complex Building Nakawa P. O Box 40082 Kampala Tel: 0393 261548 NAKAWA

South Eastern Regional Office Plot 16 Rippon Garden Road P.O Box 1710 Jinja Tel/Fax: 0434 122176 JINJA

Western Region Office Hoima Muganwa Center Plot 30 Old Tooro Road P.O Box 192 Hoima Tel/Fax: 0465 440 688 HOIMA

West Nile Region Office- Arua P. O Box 1034, Arua Plot. 1mt Wati Road at Anyafio Tel: 0414 671033

ARUA

South Western Region Office- Mbarara House 29 Mbaguta Estates, Kamukuzi P.O Box 1886 Mbarara, Uganda Tel: 0414 671034

Eastern Region Office Tororo Plot No: 27 Kwapa Road P.O Box 453, Tororo - Uganda Tel/Fax: +256 454 445 195 TORORO

Northern Region Office Lira Erute Road P.O Box 235 Lira Tel/Fax: 0414 671032

LIRA

MBARARA

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 32 of 42



- 1118 5.1.3 The application letter should clearly state the details of the advert to be vetted. i.e.
- a) The name of the local herbal product;
- b) The brand name of the local product (where applicable);
- 1121 c) The type of material carrying the advert information. i.e. scripts, posters, T-shirts, bags pens, etc.;
- d) Audio CDs, tapes etc.;
- e) Copy of the letter of registration / notification with number of the product OR Evidence of submission of application for notification.
 - f) In case of renewals, the date of expiry and state if there are amendments to the advert. Letter of registration / notifications should be attached.

1128 **5.3. VETTING**

1126 1127

1129

1130

11311132

1133

1135

1136

1137

The Applications shall go through a Vetting process by National Drug Authority and applicable fees will be as per The National drug policy and authority (fees) regulations 2014.

Type of materials	Examples
Type of materials	
Written material	Calendars, diaries, booklets, supplements
Witten material	e.t.c.
Audio message with written	CDs, tapes, VCDs
scripts	CDS, tapes, VCDS
Visual aids	Posters/bill boards adverts on vehicles, wall
Visual alus	branding
Miscellaneous items	T-shirts, caps, belts
Organizing a Launch / symposium	Coordinate presentations, invite others to
Organizing a Launchy symposium	exhibit
Participating in exhibitions	
Faiticipating in exhibitions	
Miscellaneous	Road side shows
iviiscellaneous	Sponsorship of functions

1134 **5.4. SAMPLES**

- a) Two samples of the promotional materials are submitted at the time of application.
- b) All samples shall be in **ENGLISH** Language. For samples that are not in English, the applicants shall submit a correct translation of the advert in the English languages

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 33 of 42



1143

1144

1145

1146

1147 1148

1150

1152

1154

1155

1156 1157

1158

1170

1171

Human and Veterinary Use in Uganda

Guidelines for Regulation of Local Traditional/Herbal Medicines for Safe Drugs Save Lives

AUDIO / VISUAL ADVERTS 1138 5.5.

- The applicant shall submit along with the CD/DVD/tape, a written script in the 1139 language of interest. 1140
 - If the advert is in a vernacular language, then a script in both the vernacular and English language must be submitted before vetting starts.
 - The applicant may initially submit the intended script for the advert. After vetting and approval of the submitted script, the applicant may then proceed to make an audio recording following the approved script without deviating from approved information in the script. The resultant CD shall be submitted for vetting and final approval.
 - The audio message must not deviate from the approved script.

5.6. **SUPPLEMENTS** 1149

- a) Two copies of information to be published as a supplement shall be submitted.
- b) The applicant shall move with the soft copy whenever queries are raised. 1151

PRODUCTION OF PROMOTIONAL MATERIALS (PACKAGING MATERIAL) 1153 5.7.

The artwork of the Packaging Material (PM) should be vetted and approved before bulk printing. This applies to developing promotional materials for publication and/or distribution.

EXHIBITIONS/SYMPOSIA/LAUNCHES 5.8.

- These should notify NDA of their intention to exhibit, and shall declare all activities that 1159 would be done during exhibition. 1160
- The organizer of the function shall submit the following: 1161
- a) List of presenters and their presentations; 1162
- 1163 b) Stall attendants if any;
- c) PM samples; 1164
- d) Tentative program; 1165
- 1166 e) Copies of speeches and list of Invitees.
- All promotional activities to be carried out in the Launch/ exhibitions / symposium should 1167 1168 be stated and declared.

5.8.1 The herbal medicine being advertised should: 1169

- a) Not be listed in schedule 1 of the NDP/A Act;
 - b) Be legally available in Uganda and registered with / notified to NDA:

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 34 of 42



1185

1186

1187

1188 1189

1190

1192

11931194

1195

1196

1197

1198 1199

1200

1201

1202 1203

1204

Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

1172 c) The advert should not contravene Section 33 of the NDP/A Act.

1173 **5.8.2** The information on the advert should be:

- a) Reliable; accurate; truthful; up-to-date, informative, educative and capable of substantiation;
- b) Consistent with the dossier presented to NDA at the time of registration / notification;
- c) Devoid of misleading information;
- d) Advert should not be exaggerated and should be verifiable;
- e) Should not be offensive to our cultural values.

5.8.3 Herbal Medicine Promotional material / Advert targeted to prescribers / health related professionals:

- a) Should contain full product information as defined by NDA;
- b) The information supplied must be supported by acceptable evidence based on the dossier presented at the notification period;
 - c) Free samples of the products can be provided to the above categories of health workers on request but in modest quantities.

5.8.4 Promotional material targeted to the general public:

- a) Should be limited to those local herbal products manufactured by the advertising company/firm;
 - b) Should not be targeted at children and the PM should not contain pictures of children.

1191 5.8.5 Approval of the local herbal adverts

Any advert with critical errors shall not be approved unless amendments have been made. The critical errors (Common deficiencies) in the guideline include but not limited to:

- a) Descriptive matter on/claims to treat the following prohibited diseases: Amenorrhoea, arteriosclerosis, bladder stones, blindness, brigts' disease, cancer, cataract, deafness, diabetes, diphtheria, dropsy, epilepsy, erysipelas, gallstones, glaucoma goiter, heart disease hernia,, kidney stones, leprosy, locomotorataxy, lupus, nephritis, paralysis, pleurisy, pneumonia, poliomyelitis, scarlet fever, schistosomiasis, septicaemia, smallpox, tetanus or lockjaw, trachoma tuberculosis. Reference to Section 33 (1) & (2) of the NDP/A & Fifth Schedule of NDP/A (Diseases as to which publication of descriptive matter is restricted or Prohibited)
- b) Herbal products containing substances of class A category (Class A drugs or narcotics)
- c) Herbal products not approved by National Drug Authority

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:	
Revision No.: 0	Effective Date:	Page 35 of 42	



1205 1206 60 REFEREN

6.0	REFERENCES
	Guidelines On Registration Of Imported Herbal Medicine Products For Human Or or
	Veterinary Use In Uganda; Doc. No.: DAR/GDL/029
	Supplementary guidelines on good manufacturing practices for the manufacture of
	herbal medicines - Annex 3 in WHO Expert Committee on specifications for
	pharmaceutical preparations. 40 Report, WHO, 2006 (WHO Technical Report
	Series, No. 937) (WHO 2006)
	The National Drug Policy And Authority (Control Of Publication And Advertisement
	Relating To Drugs) Regulations, 2014; STATUTORY INSTRUMENTS 2014
	No. 33
	WHO guidelines on good agricultural and collection practices (GACP) for medicinal
	plants. World Health Organization - 2003.
	WHO guidelines for assessing quality of herbal medicines with reference to
	contaminants and residues; 2007
	6.0

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 36 of 42



1227 1228 Appendix 1: 1229 1230 1. SUMMARY OF REQUIREMENTS FOR NOTIFICATION OF LOCAL HERBAL 1231 **PRODUCTS** 1232 a) A filled application form; b) A laboratory analytical report; 1233 1234 Phytochemical analysis; c) Microbial Analysis [Ecoli; TPC; Yeast & mould] ref: WHO guidelines for 1235 d) 1236 assessing quality of herbal medicines with reference to contaminants and 1237 residues; 2007; 1238 A minimum of two samples: e) Payment of a fee of 50,000/= per product 1239 f) 1240 g) Product must meet the basic requirements: 1241 Provide a sample of the electronic artworks. h) 1242 BASIC REQUIREMENTS FOR SUCCESSFUL APPROVAL OF LOCAL HERBAL 2. **APPLICATIONS** 1243 Labelling: 1244 a) 1245 A label must have: 1246 Name of product: i. Name of medicinal plant(s), (either In English or botanical); 1247 ii. Direction on use e.g. "Adult: take 2 teaspoons three times daily"; 1248 iii. 1249 iv. Indications/diseases that the product treats; 1250 Quantity (In grams, mls, ltrs etc.); ٧. 1251 Dosage form-e.g. syrup, powder, solution, mouthwash etc.; vi.∢ vii. 1252 Name and address of manufacturer; 1253 viii. Storage conditions .e.g. store at room temperature, protect from light and 1254 moisture; 1255 Manufacturing date: ix. Expiry date (shelf life, max is 12 months for local herbal products); 1256 Χ. Batch number: 1257 χi.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 37 of 42

Precautions / side effects

1258

xii.



1259 1260		xiii. Evidence of efficacy or claims –In other words, there should be evidence that the product treats the disease.
1261 1262		xiv. Avoid names that are misleading-e.g. SUPERNATURAL HEALING TONIC, BABY GENIUS, LIFE RESTORATION TONIC.etc.
1263		xv. Avoid labels with pictures of body organs.
1264 1265	3.	Centres / instututions that conduct analysis
1266 1267		 a) DGAL- Government analytical laboratory; Location: Plot 2 Lourdel Road, Nakasero Wandegeya; Tel:0414250218
1268 1269		b) NCRI- National chemotherapeutic research institute; Plot 2A, Lourdel Rd, Nakasero; http://ncri.ug/ Telephone +256-414-250488
1270		c) GULU – Gulu University
1271		d) Mbarara – Mbarara University of Science & Technology
1272 1273 1274		e) UIRI – Uganda Industrial research institute ,Plot 424 Makubuya Road Nakawa Industrial Area . <u>www.uiri.org</u> , Telephone +256414286124 , +256414286695
1275 1276		f) Department of Pharmacy, College of Health Sciences, Makerere University, Tel: Gen. +256—312213113
1277		g) National Drug Quality Control Laboratory
1278	4.	Research and Ethics committee (RECs) responsible for approving research
1279 1280 1281		a) Theta , Uganda Plot 724/725 / P.O. Box 21175 Mawanda Rd, Kampala ; Tel: +25641 4530619; https://www.uncst.go.ug/research-ethics-committee-accreditation/
1282	5.	Botanical identification (Plant identification)
1283 1284 1285		Department of Plant Sciences, Microbiology and Biotechnology, College of Natural Sciences (CoNAS), Makerere University. P.O BOX 7062, Kampala, Uganda; Tel: +256 414 540765
1286	6.	Animal studies
1287 1288		COVAB – Makerere University
1289 1290		College of Veterinary Medicine, Animal Resources and Bio-Security (COVAB), Makerere University P.O. Box 7062 Kampala

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:	
Revision No.: 0	Effective Date:	Page 38 of 42	



1292 1293

Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

Appendix 2: FORM 6 - APPLICATION FORM FOR REGISTRATION OF LOCAL HERBAL MEDICINE PRODUCT

Regulation 19(2)

Particulars of applicant i.e. name and contact address: (Email address inclusive), telephone number	
Age (where applicable)	d) Gender (Where applicable)
Marital status(where applicable)	e) Educational background(if applicable)
Reference of Local Council (with signature and stamp) or certificate of incorporation	
Name of product (As it appears on the pack):	
Dosage form and pack size:	
Mode of administration (Topical, Oral)	O
Common name(s)/ source plant(s) that's active (botanical name(s))
Herbarium). (Evidence of authenticity of the plants used.)	
Community and name by which its known by the community /if applicable	
Part of the plant or method of preparation used (e.g. leaf, root, oil, extract etc.)	
Strength/quantities per dosage form (where applicable to a prepared dose such as tablet, mixture etc.)	
Indication for use as given on the pack/literature/manufacturer's instructions)	
Major side/adverse effects, if any:	
Storage conditions	
Shelf life	
Address of the manufacturer	
Period during which the herbal medicine product has been in use	
Any written literature to support use of the product	
Method/outlet used for sale and address of location	
Signature	
Date	
	Age (where applicable) Marital status(where applicable) Reference of Local Council (with signature and stamp) or certificate of incorporation Name of product (As it appears on the pack): Dosage form and pack size: Mode of administration (Topical, Oral) Common name(s)/ source plant(s) that's active (botanical name(s) Herbarium specimen number). (Got from the National Herbarium). (Evidence of authenticity of the plants used.) Community and name by which its known by the community /if applicable Part of the plant or method of preparation used (e.g. leaf, root, oil, extract etc.) Strength/quantities per dosage form (where applicable to a prepared dose such as tablet, mixture etc.) Indication for use as given on the pack/literature/manufacturer's instructions) Major side/adverse effects, if any: Storage conditions Shelf life Address of the manufacturer Period during which the herbal medicine product has been in use Any written literature to support use of the product Method/outlet used for sale and address of location Signature

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 39 of 42



Guidelines for Regulation of Local Traditional/Herbal Medicines for Human and Veterinary Use in Uganda

Appendix 3: APPLICATION FORM FOR NOTIFICATION OF LOCAL TRADITIONAL / HERBAL MEDICINES IN UGANDA

One copy of this form should be completed for each Traditional/Herbal medicine product

1	Particulars of applicant i.e.			
ı	(Name and Contact address, telephor			
2	Name of product			
	(As it appears on the pack)			
	Dosage form and Pack Size:			
3	i.e liquid, powder ,chewable tablet ,te			
	capsule ,granule ,gel ,cream ,ointmer)t		
4	Name of the main or active Ingredient (Botanical Name)			
	Part of the plant or preparation			
5	(eg. leaf, root, oil, extract etc)			
	Strength of dosage form		2	
6	(where applicable to a prepared dose	such as		
	tablet, mixture etc)			
			Part of the plant	Method of
7		Local name	or preparation	extraction
'	Active Ingredient (Botanical Name)		(eg. leaf, root,	CATIACTION
			oil, extract etc)	
	e.g. Eucalyptus		leaf	Distillation, Boil, powder
	Inactives used			
	i.e flavouring, preservative			
	Indication for use as given on	•		
8	the pack/literature/Manufacturer's inst			
	helps, supports			
	Instructions of use / administration.(P	lease state		
	how the product should be taken by ti			
	State the quantity of the product that			
0		,		
9	i.e Take two 5 ml spoons daily			
	Please indicate different dosages for adults &			
	children.			
10	Major side/Adverse effects			
11	Storage conditions			
1 1	i.e (store in a cool dry place , protect			

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 40 of 42



Safe Drugs Save Lives

12	Shelf life (Maximum time for which the product remains stable)	
13	Address of the Manufacturer; (<i>Manufacturer's name</i> , <i>Manufacturer's address</i> , <i>telephone number</i>)	
14	How long has this medicine been in use? (Attach supporting literature)	70
15	Signature	.6
	Date	

 a) Provide a minimum of two samples of each package type and size.

- b) Provide a copy of the label artworks. (Note labelling should comply to labelling requirements)
- c) Provide a copy of phytochemical and microbial analysis report.

d) Indicate the source of raw materials. (N.B Raw materials should be sourced from places of assured Quality)

Note: NDA does not regulate the practice of witchcraft, occult practices and the practice of traditional and complementary medicine.

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 41 of 42



DOCUMENT REVISION HISTORY

Date of		Document	Author(s)	Changes made and/or reasons
revision	number	Number		for revision
	0	INS/GDL/033	Author:	This is the first issue of this
			Mutyaba Michael	document
			Reviewers:	
			Kamiat Lutaaya	
			Kosiya Emuron	
			Noah Mutebi	

Doc. No.: DAR/GDL/033	Revision Date:	Review Due Date:
Revision No.: 0	Effective Date:	Page 42 of 42