

HENNA grounded.

SCOPE

This standard specifies the requirements that should be met in the grounded free of additives Henna leaves and shall not apply to other products derived from them

DEFINITION

Henna leaves are natural herb used as cosmetic dye and has numerous medicinal benefits. The scientific potential name of Henna is Lawsonia Inermis, belonging to the family Lythaceae.

ANATOMICAL DESCRIPTION

HISTOLOGICAL STRUCTURE OF GROUNDED HENNA LEAVES

- Olive green or brownish green; numerous fragments of cuticle and leaf parenchyma rosette aggregates; and monoclinic prisms of calcium oxalate frequently up to 15 microns, and occasionally up to 45 microns in diameter
- Globular mucilage cells
- Numerous fragments of intra-vascular tissues.
Long, narrow and short fusi-form schlerenchyma fibers with thick walls
Some of the latter being wavy toothed, fragments of the epidermis, with stomata and striated cuticle.
- The stomata are surrounded by ordinary epidermal cells, and occasionally, by papillae or non-glandular hair fragments

GENERAL REQUIREMENTS:

THE FOLLOWING REQUIREMENTS SHALL BE MET IN GROUNDED HENNA LEAVES

- Shall have the aromatic odor that characterizes Henna
- Free of abnormal odor and color
- Free of live and dead insects, their fragments and remnants, as well as rodents' remnants
- Be free of insects' and rodents' infestations
- Free of agglomeration and molds
- Free of pesticide residues, fertilizer and harmful chemicals

TECHNICAL REQUIREMENTS

- OZONE 10% MINIMUM
- COLD WATER EXTRACTION 25% MINIMUM
- IMPURITIES AND DUST 1% MAXIMUM
- IMPURITIES (PARTS OF THE SAME PLANT OTHER THAN LEAVES AND PETIOLE) 10% MAXIMUM
- MOISTURE 10% MAXIMUM
- TOTAL ASH 15% MAXIMUM
- RAW FIBERS 15% MAXIMUM
- ACID INSOLUBLE ASH 5% MAXIMUM

METAL CONTAMINANTS

- LEAD PB 20 PARTS PER MILLION (PPM)
- ARSENIC AS 1 PPM
- CADMIUM CD 1 PPM
- MERCURY HG 1 PPM

HEALTH REQUIREMENTS

REQUIREMENT	ALLOWED LIMIT
BACTERIAL COUNT-MAXIMUM	10000 CELLS/GM
YEASTS AND FUNGI-MAXIMUM	100000 CELLS/GM

SAMPLING

Samples shall be taken according to Arabic Standard No. 307:2002 (spices and condiments - sampling)

INSPECTING AND ANALYZING METHODS

All the required tests of AOAC should be conducted on the collected sample

PACKAGING

Grounded Henna leaves are to be packed in clean and new packages of materials that do not affect the properties of the product. The packages should be moisture-proof and dust-proof, and it is advisable for them to have an absorbent material inside

IDENTIFICATION BADGE

PRODUCT NAME HENNA GROUNDED.	PRODUCT COMPONENTS ?	DATE OF PRODUCTION & EXPIRATION (MONTH/YEAR) DATE	CODE 9 788067 049399
COUNTRY OF ORIGIN Globe icon	PLACE OF MANUFACTURE Location pin icon	NET WEIGHT (KG) KG	PRODUCING COMPANY BRAND NAME

SHELF LIFE

Shelf life of grounded Henna should not exceed 3 years from the date of production

STORAGE

Grounded Henna shall be stored in a clean place, low in humidity & temperature and protected from light and dust.

REFERENCES

- Syrian Standard of Henna grounded No. 1502/1995.
- Arabic Standard No. (307:2002) (spices and condiments - sampling)
- Ali Aldijwi, (1992). Medicinal and Aromatic Plants' Technology. Angelo Egyptian library - Cairo. Page 456 - volume (1).
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- AOAC (1984). Association of Official Analytical Chemists International.
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- Indian Standard Institute (1984), Specification of Henna Powder. L.S. 11402. New Delhi, India.