



January 5, 2018

Y&J BIO Co., Ltd.
% Ms. Mina Joo
Manager
BT Solutions Incorporated
Unit 502, 148 Yeoksam-ro
Seoul, 06249 Kr

Re: K172968
Trade/Device Name: Hair Up
Regulation Number: 21 CFR 890.5500
Regulation Name: Infrared Lamp
Regulatory Class: Class II
Product Code: OAP
Dated: December 6, 2017
Received: December 7, 2017

Dear Ms. Joo:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you; however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in

the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<https://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/>) and CDRH Learn (<http://www.fda.gov/Training/CDRHLearn>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<http://www.fda.gov/DICE>) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

David Krause -S

for Binita S. Ashar, M.D., M.B.A., F.A.C.S.
Director
Division of Surgical Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

K172968

Device Name

Hair Up

Indications for Use (Describe)

Promotion of hair growth in males with androgenetic alopecia who have Norwood Hamilton Classifications of IIa to V and Fitzpatrick Classification Skin Phototypes I to IV.

Type of Use (Select one or both, as applicable)

☐ Prescription Use (Part 21 CFR 801 Subpart D)

☒ Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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5. 510(k) Summary

1. General Information

Applicant/Submitter: Y&J BIO Co., Ltd.
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Preparation Date: September-22-2017

2. Device Name and Code

Device Trade Name: Hair Up
Common Name: Lamp, non-heating, for promotion of hair growth
Classification Name: Infrared lamp
Product Code: OAP
Regulation Number: 890.5500
Classification: Class II
Review Panel: General & Plastic Surgery (ODE)

3. Predicate Devices

Hair Up is substantially equivalent to the following device

Table 5.1 Predicate devices

Applicant	Device Name	510(k) Number
Apira Science Inc.	igrow-II Hair Growth System	K141567

4. Device Description

Hair Up

510(k) Summary

Hair Up shares great similarities with predicate device which is currently market cleared for promotion of hair growth in males with androgenetic alopecia who have Norwood Hamilton Classifications of IIa to V and Fitzpatrick Classification Skin Phototypes I to IV.

Both Hair Up and its predicate device both consist of 21 red visible laser diodes (LDs) and 30 red light emitting diodes (LEDs) configured within an outer helmet and protective inner liner. The use of LDs and LEDs provides for a full coverage of the upper 1/3 of the head where commonly covered with stylized hair. The system will automatically pause therapy when the correct head position is re-established. At the end of the therapy cycle, the system signals that therapy is complete and ready to be powered down.

5. Indications / Intended Use

Promotion of hair growth in males with androgenetic alopecia who have Norwood Hamilton Classifications of IIa to V and Fitzpatrick Classification Skin Phototypes I to IV.

6. Technical Characteristics in Comparison to Predicate Devices

Hair Up is substantially equivalent to the following legally marketed predicate devices

	Predicate Device	Proposed Device
510(K) Number	K141567	Not Available
Manufacturer	Apira Science, Inc.	Y&J BIO Co., Ltd.
Device Name	igrow-II Hair Growth System	Hair Up
Clearance Date:		N/A
Classification / Regulation	Class 2 / 890.5500	Class 2 / 890.5500
Product Code	OAP	OAP
Intended Use	Promotion of hair growth in males with androgenetic alopecia who have Norwood Hamilton Classifications of IIa to V and Fitzpatrick Classification Skin Phototypes I to IV.	Promotion of hair growth in males with androgenetic alopecia who have Norwood Hamilton Classifications of IIa to V and Fitzpatrick Classification Skin Phototypes I to IV.
Mode of Operation	Low-level laser diodes and light emitting diodes	Low-level laser diodes and light emitting diodes
Wavelength	655 nm	655 nm
Electrical Requirements	Input: AC 100V ~ 240V (free voltage) Frequency: 50Hz/60Hz Power: 5V 2A	Input: AC 100V ~ 240V (free voltage) Frequency: 50Hz/60Hz Power: 5V 2A
Maximum Power	5 mW	5 mW
How to use	Helmet system	Helmet system
Treatment time	20-25 min	20-25 min

6. Performance Data

Non-clinical tests: Measurement of wavelength and average output power, of treatment were performed. Testing conducted on the Hair Up shows that it refers to the relevant mandatory

Hair Up

510(k) Summary

performance standards for laser products 21 CFR 1040.10 and 1040.11. Other performance, such as basic safety, etc, were tested using following consensus standards:

- Basic safety and essential performance of the Hair Up is tested and evaluated according to IEC 60601-1:2005.
- Effect to the device by electromagnetic disturbances were tested and evaluated according to the FDA-recognized consensus standard, IEC 60601-1-2:2014.
- Safety of laser products is evaluated according to FDA-recognized consensus standard, IEC 60825-1: 2014.
- Biological evaluation of medical devices is tested and evaluated according to ISO 10993-5: 2009 and ISO 10993-10:2010.
- Risk management was recorded by referring to ISO 14971:2007.
- Usability was documented referring to IEC 62366.

7. Substantial Equivalence

The intended use of the Hair Up is within the scope of the predicate devices. Hair Up, from both a design and clinical perspective, uses similar or identical technology as the cited predicate device and has the same intended uses. Based upon the predicted overall performance characteristics for the Hair Up, Y&J BIO Co., Ltd. believes that no significant differences exist in usage of its underlying technological principles between Hair Up and the cited predicate devices.

8. Conclusions

On the basis of the information provided in this Summary, Y&J BIO Co., Ltd. believes that the Hair Up is substantially equivalent to legally commercialized predicate devices for the purposes of this 510 (k) submission.