

X 972949



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SEP 18 1997

510 (k) Summary

Trade name: AURELUX Bio Y85PF
 Common name: Dental casting alloy
 Classification name: Gold based alloys and precious metal alloys for clinical use
 Classification number: EJT

Legally marketed device: Argen Argident Bio Yellow PF
 Description of the device: High gold casting alloy
 Intended use of the device: Type II to IV restoration with porcelain veneering

Summary of the technological characteristics

Test methods applied: as in ANSI/ADA 5 and ISO 9693

Comparison of composition:

ALLOY	Name	COMPOSITION (weight%)							
		Au	Pt	Zn	Ta	In	Ir	Rh	Mn
Legal	Argident Bio Y PF	86.5	10.4	1.5	0.3	0.2	0	0.9	0.1
New	Aurelux BioY85PF	84.5	12	1.8	0	0.5	1.2	0	0

x is less than 1 %

Comparison of physical and mechanical properties

ALLOY	Name	Melting point range (oC)		Hardness (Vickers 5/30)		Yield strength (MPa)		Elongation (%)		CTE (x10 ⁻⁶ /°C)	Density (g/cm ³)
		solid.	liquid	soft	hard	soft	hard	soft	hard		
Legal	Argident B Y PF	1040	1130	180	250	650	750	8	5	14.5	18.6
New	Aurelux BioY85PF	1027	1079	120	220	280	460	17	7	14.4	18.8

Discussion

The noble metal content is very high, in the excess of 98 %. Total base metal content is therefore very low, the major element of it in both alloys is Zn with 1.8 and 1.5 % respectively. Argident contains also Ta and Mn, which most probably are oxidized and eliminated from the alloy during melting.

Conclusion

On the basis of the very high noble metal content and essentially same constitution it may be expected that the new alloy perform very similarly to Argident B Y PF.





Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

SEP 18 1997

Mr. Jerome D. Davis
Managing Director
Aurex Precious Metal Industries (PTY) Ltd.
P.O. Box 509 Edenvale 1610
Republic of South Africa

Re: K972949
Trade Name: Aurelux Bio Y85PF
Regulatory Class: II
Product Code: EJS
Dated: June 13, 1997
Received: June 20, 1997

Dear Mr. Davis:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to 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). 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.

If your device is classified (see above) into either class II (Special Controls) or class III (Pre-market Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531

Page 2 - Mr. Davis

through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4618. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "<http://www.fda.gov/cdrh/dsmamain.html>".

Sincerely yours,



Timothy A. Ulatowski
Director
Division of Dental, Infection Control
and General Hospital Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

510(k) Number (if known): K972949

Device Name: AURELUX BIO Y85PF

Indications For Use:

Dental casting alloy used in combination with dental ceramics for fabrication of metallo-ceramic restoration.

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Gerald Shapiro
(Division ~~Step 2B~~)
Division of ~~Medical Device Control~~
and ~~General Hospital Control~~
510(k) Number K972949

Prescription Use
(per 21 CFR 801.109)

OR

Over-The-Counter Use