



**PMA APPROVAL ORDER
October 11, 2018**

Progenika Biopharma, S.A.
Attention: Diego Tejedor, PhD
Parque Tecnológico de Bizkaia
Edeficio 504
48160 Derio, Bizkaia
Spain

Re: BP170154/0
Trade/Device Name: ID CORE XT™
Product Code: PEP
Filed: January 23, 2018
Amended: February 5, 2018; February 16, 2018; March 28, 2018;
July 4, 2018; August 6, 2018; September 13, 2018 and
September 18, 2018

Dear Dr. Tejedor:

The Center for Biologics Evaluation and Research (CBER) of the Food and Drug Administration (FDA) has completed its review of your premarket approval application (PMA) for the ID CORE XT™. This device, ID CORE XT™ (Reagents and Analysis Software) is a qualitative, polymerase chain reaction (PCR) and hybridization-based genotyping test for the simultaneous identification of multiple alleles encoding human erythrocyte antigens (HEAs) in genomic DNA extracted from whole blood specimens collected in EDTA.

This test can be used to genotype the polymorphisms and predict the allele genotypes and antigen phenotypes of the blood group systems listed in Table 1, as an alternative to serology.

Table 1. List of the polymorphisms, alleles and antigens interrogated by ID CORE XT™.

Blood Group System	Polymorphism	Allele	Antigen (ISBT)
Rh	<i>RHCE:c.122A>G</i> <i>RHCE:c.307T>C</i> <i>RHCE:c.335+3039ins109</i> <i>RHCE:c.676G>C</i> <i>RHCE:c.712A>G</i> <i>RHCE:c.733C>G</i> <i>RHCE:c.1006G>T</i> <i>RHD-CE-D hybrid</i>	<i>RHCE*ce</i> <i>RHCE*cE</i> <i>RHCE*Ce</i> <i>RHCE*CE</i> <i>RHCE*CeCW</i> <i>RHCE*ceCW</i> <i>RHCE*CECW</i> <i>RHCE*ceAR</i> <i>RHCE*ce[712G]</i> <i>RHCE*ce[733G]</i> <i>RHCE*Ce[733G]</i> <i>RHCE*Ce[712G,733G]</i> <i>RHCE*cE[712G,733G]</i> <i>RHCE*ce[733G,1006T]</i> <i>RHD*r's-RHCE*ce[733G,1006T]</i> <i>RHCE*CeFV</i> <i>RHCE*cEFM</i> <i>RHCE-D[5, 7]-CE</i>	C (RH2) E (RH3) c (RH4) e (RH5) CW (RH8) V (RH10) hrS (RH19) VS (RH20) hrB (RH31)
Kell	<i>KEL:c.578T>C</i> <i>KEL:c.841T>C</i> <i>KEL:c.1790C>T</i>	<i>KEL*K_KPBJSB</i> <i>KEL*k_KPBJSB</i> <i>KEL*k_KPAJSB</i> <i>KEL*k_KPBJSA</i>	K (KEL1) k (KEL2) Kpa (KEL3) Kpb (KEL4) Jsa (KEL6) Jsb (KEL7)
Kidd	<i>SLC14A1:c.342-1G>A</i> <i>SLC14A1:c.838G>A</i> <i>SLC14A1:c.871T>C</i>	<i>JK*A</i> <i>JK*B</i> <i>JK*B_null(IVS5-1a)</i> <i>JK*A_null(IVS5-1a)</i> <i>JK*B_null(871C)</i>	Jka (JK1) Jkb (JK2)
Duffy	<i>FY:c.1-67T>C</i> <i>FY:c.125G>A</i> <i>FY:c.265C>T</i>	<i>FY*A</i> <i>FY*B</i> <i>FY*A_GATA</i> <i>FY*B_GATA</i> <i>FY*A[265T]</i> <i>FY*B[265T]_FY*X</i>	Fya (FY1) Fyb (FY2)
MNS	<i>GYPB:c.[59C>T]</i> <i>GYPB:c.143T>C</i> <i>GYPB:c.230C>T</i> <i>GYPB:c.270+5G>T</i> <i>GYP.hybrid</i>	<i>GYPB*A</i> <i>GYPB*N</i> <i>GYPB*S</i> <i>GYPB*s</i> <i>GYPB*S_null(230T)</i> <i>GYPB*S_null(IVS5+5t)</i> <i>GYP*[140A]</i> <i>GYPB*deletion</i>	M (MNS1) N (MNS2) S (MNS3) s (MNS4) U (MNS5) Mia (MNS7)
Diego	<i>DI:c.2561T>C</i>	<i>DI*A</i> <i>DI*B</i>	Dia (DI1) D b (DI2)
Dombrock	<i>DO:c.323G>T</i> <i>DO:c.350C>T</i> <i>DO:c.793A>G</i>	<i>DO*A</i> <i>DO*B</i> <i>DO*B_HY</i> <i>DO*A_JO</i>	Doa (DO1) Dob (DO2) Hy (DO4) Joa (DO5)
Colton	<i>CO:c.134C>T</i>	<i>CO*A</i> <i>CO*B</i>	Coa (CO1) Cob (CO2)
Cartwright	<i>YT:c.1057C>A</i>	<i>YT*A</i> <i>YT*B</i>	Yta (YT1) Ytb (YT2)
Lutheran	<i>LU:c.230A>G</i>	<i>LU*A</i> <i>LU*B</i>	Lua (LU1) Lub (LU2)

We are pleased to inform you that the PMA is approved. You may begin commercial distribution of the device upon receipt of this letter. Although this letter refers to your product as a device, please be aware that some approved products may instead be combination products. The Premarket Approval Database located at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMA/pma.cfm> identifies combination product submissions.

The sale and distribution of this device are restricted to prescription use in accordance with 21 CFR 801.109 and under section 515(d)(1)(B)(ii) of the Federal Food, Drug, and Cosmetic Act (the Act). The device is further restricted under section 515(d)(1)(B)(ii) of the Act insofar as the labeling must specify the specific training or experience practitioners need in order to use the device. FDA has determined that these restrictions on sale and distribution are necessary to provide reasonable assurance of the safety and effectiveness of the device. Your device is therefore a restricted device subject to the requirements in sections 502(q) and (r) of the Act, in addition to the many other FDA requirements governing the manufacture, distribution, and marketing of devices.

Expiration dating for this device has been established and approved at 15 months when stored at 2° C to 8° C. This is to advise you that the protocol you used to establish this expiration dating is considered an approved protocol for the purpose of extending the expiration dating as provided by 21 CFR 814.39(a)(7).

Continued approval of the PMA is contingent upon the submission of periodic reports, required under 21 CFR 814.84, at intervals of one year (unless otherwise specified) from the date of approval of the original PMA. Two copies of this report, identified as “**Annual Report**” (please use this title even if the specified interval is more frequent than one year) and bearing the applicable PMA reference number, should be submitted to the address below. The Annual Report should indicate the beginning and ending date of the period covered by the report and should include the information required by 21 CFR 814.84.

In addition to the above, and in order to provide continued reasonable assurance of the safety and effectiveness of the PMA device, the Annual Report must include, separately for each model number (if applicable), the number of devices sold and distributed during the reporting period, including those distributed to distributors. The distribution data will serve as a denominator and provide necessary context for FDA to ascertain the frequency and prevalence of adverse events, as FDA evaluates the continued safety and effectiveness of the device.

This is a reminder that as of September 24, 2014, class III devices are subject to certain provisions of the final UDI rule. These provisions include the requirement to provide a UDI on the device label and packages (21 CFR 801.20), format dates on the device label in accordance with 21 CFR 801.18,

and submit data to the Global Unique Device Identification Database (GUDID) (21 CFR 830 Subpart E). Additionally, 21 CFR 814.84 (b)(4) requires PMA annual reports submitted after September 24, 2014, to identify each device identifier currently in use for the subject device, and the device identifiers for devices that have been discontinued since the previous periodic report. It is not necessary to identify any device identifier discontinued prior to December 23, 2013. For more information on these requirements, please see the UDI website, <http://www.fda.gov/udi>.

Before making any change affecting the safety or effectiveness of the device, you must submit a PMA supplement or an alternate submission (30-day notice) in accordance with 21 CFR 814.39. All PMA supplements and alternate submissions (30-day notice) must comply with the applicable requirements in 21 CFR 814.39. For more information, please refer to the FDA guidance document entitled, “Modifications to Devices Subject to Premarket Approval (PMA) - The PMA Supplement Decision-Making Process” (www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/ucm089274.htm).

You are reminded that many FDA requirements govern the manufacture, distribution, and marketing of devices. For example, in accordance with the Medical Device Reporting (MDR) regulation, 21 CFR 803.50 and 21 CFR 803.52, for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products, you are required to report adverse events for this device. Manufacturers of medical devices, including in vitro diagnostic devices, are required to report to FDA no later than 30 calendar days after the day they receive or otherwise becomes aware of information, from any source, that reasonably suggests that one of their marketed devices:

1. May have caused or contributed to a death or serious injury; or
2. Has malfunctioned and such device or similar device marketed by the manufacturer would be likely to cause or contribute to a death or serious injury if the malfunction were to recur.

Additional information on MDR, including how, when, and where to report, is available at <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> and on combination product postmarketing safety reporting is available at (see <https://www.fda.gov/CombinationProducts/GuidanceRegulatoryInformation/ucm597488.htm>).

In accordance with the recall requirements specified in 21 CFR 806.10, for devices or the postmarketing safety reporting requirement (21 CFR 4, Subpart B) for combination products, you are required to submit a written report to FDA of any correction or removal of this device initiated by you to: (1) reduce a risk to health posed by the device; or (2) remedy a violation of the act caused by the device which may present a risk to health, with certain exceptions

specified in 21 CFR 806.10(a)(2). Additional information on recalls is available at www.fda.gov/Safety/Recalls/IndustryGuidance/default.htm.

CBER does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading. CBER will notify the public of its decision to approve your PMA by making available, among other information, a summary of the safety and effectiveness data upon which the approval is based. The information can be found on the FDA website located at <https://www.fda.gov/BiologicsBloodVaccines/BloodBloodProducts/ApprovedProducts/default.htm>. Written requests for this information can also be made to the Food and Drug Administration, Dockets Management Branch, (HFA-305), 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852. The written request should include the PMA number or docket number. Within 30 days from the date that this information is placed on the Internet, any interested person may seek review of this decision by submitting a petition for review under section 515(g) of the act and requesting either a hearing or review by an independent advisory committee. FDA may, for good cause, extend this 30-day filing period.

Failure to comply with any post-approval requirement constitutes a ground for withdrawal of approval of a PMA. The introduction or delivery for introduction into interstate commerce of a device that is not in compliance with its conditions of approval is a violation of law.

You are reminded that, as soon as possible and before commercial distribution of your device, you must submit an amendment to this PMA submission with copies of all approved labeling in final printed form. Final printed labeling that is identical to the labeling approved in draft form will not routinely be reviewed by FDA staff when accompanied by a cover letter stating that the final printed labeling is identical to the labeling approved in draft form. If the final printed labeling is not identical, any changes from the final draft labeling should be highlighted and explained in the amendment.

All required documents should be submitted in triplicate, unless otherwise specified, to the address below and should reference the above PMA number to facilitate processing.

Food and Drug Administration
Center for Biologics Evaluation and Research
Document Control Center
10903 New Hampshire Ave.
WO71-G112
Silver Spring, MD 20993-0002

If you have questions concerning this approval order, please contact Dr. Vasantha Kumar at (240) 402-8413 or Vasantha.Kumar@fda.hhs.gov.

Sincerely,

Nicole Verdun, MD
Director
Office of Blood Research and Review
Center for Biologics Evaluation and Research