510(k) Summary

Date Prepared	May 09, 2018
Submitter	Arthrex Inc.
	1370 Creekside Boulevard
	Naples, FL 34108-1945
Contact Person	Laura Medlin
	Regulatory Affairs Specialist 1-239-643-
	5553, ext. 72005
	laura.medlin@arthrex.com
Name of Device	Thrombinator™ System for use with the Arthrex Angel concentrated Platelet Rich Plasma (cPRP) System
Common Name	Platelet and Plasma Separator for Bone Graft Handling
Product Code	ORG
Classification Name	21 CFR 864.9245: Automated blood cell separator
Regulatory Class	
Predicate Device	BK110040 (Primary Predicate): Clotalyst Kit with GPS® III Separator BK080004:
	Clotalyst and GPS III® Mini Platelet Concentrate Separation Kit with ACD-
	A , Clotalyst and GPS III Platelet Concentrate Separation Kit with ACD-A
Purpose of	This Traditional 510(k) Premarket Notification is submitted to obtain FDA
Submission	clearance for the Thrombinator System for use with the Arthrex Angel
3001111331011	concentrated Platelet Rich Plasma (cPRP) System.
Device Description	The Thrombinator System for use with the Arthrex Angel concentrated Platelet
Device Description	Rich Plasma (cPRP) System includes a sterile, single-use device and a separate
	filter that aid in the preparation of autologous thrombin serum. Additional
	equipment used for blood draw and processing is not included.
Indications for Use	The Arthrex Angel concentrated Platelet Rich Plasma (cPRP) System is designed to
indications for ose	be used in the clinical laboratory or intraoperatively at the point of care for the
	safe and rapid preparation of platelet poor plasma and platelet concentrate
	(platelet rich plasma) from a small sample of whole blood or a small mixture of
	blood and bone marrow. The platelet rich plasma can be mixed with autograft
	and/or allograft bone prior to application to an orthopedic site.
	The Thrombinator System for use with the Arthrex Angel concentrated Platelet
	Rich Plasma (cPRP) System is designed for the preparation of autologous serum
	from anticoagulated peripheral blood or platelet poor plasma that is to be mixed
	with the PRP and autograft or allograft bone prior to application to a bony defect
	for improving handling characteristics.
Performance Data	To demonstrate product performance, Arthrex has conducted clot time, thrombin
	concentration, bone graft hardness testing and compared the results to the
	predicate device. The Thrombinator System for use with the Arthrex Angel
	concentrated Platelet Rich Plasma (cPRP) System passed all performance testing
	criteria.
	Bacterial endotoxin per EP 2.6.14/USP <85> was conducted to demonstrate that
	the device meets pyrogen limit specifications.
Conclusion	The Thrombinator System for use with the Arthrex Angel concentrated Platelet
	Rich Plasma (cPRP) System is substantially equivalent to the predicate device in
	which the basic design features and intended uses are the same.

Based on the indications for use, technological characteristics, and the summary of data submitted, Arthrex Inc. has determined that the proposed device is substantially equivalent to the predicate device.