



ESOP Employee Owned
for Your Benefit

145 James Way, Southampton, PA 18966
215-526-2300 • Fax: 215-526-2191
info@newageindustries.com • www.newageindustries.com

CERTIFICATE OF ANALYSIS					
Product Identifier:		Alternative Identifier:		Revision:	
A7500077-50		APAF-BP-0125-0250L		H	
Part Description:		ADVANTAFLEX BIOPHARMACEUTICAL TPE .125" X .250" X 50'			
Customer Name:		CODEXIS INC.	Customer PO#:	4509572457	Customer PN: 76243-664
Lot Identifier:		19009	Quantity:	4 EA	Heat Number: N/A
Date of Manufacture:		09 Jan 2019	Shelf Life:	10 Years	
SPECIFICATIONS					
Product Identifier:		Alternative Identifier:		Material Identifier:	
A7500077-50		APAF-BP-0125-0250L		P50102-64	
Product Description:		AdvantaFlex(r) Thermoplastic Elastomer; Shore 65A			
USP Testing:		85; 87; 88 (Class VI) 70 C for 24 Hrs; 381; 643; 661; 788			
ISO Testing:		10993			
FDA Approved Ingredients:		21 CFR 177.2600			
DMF:		28810			
European Pharmacopoeia Testing:		3.2.2.1			
Animal Derived Ingredient Free:		Yes			
Product Statements:		Mercury Free, Phthalate Free Fluid path samples of the representative finished product have been tested in accordance with USP 788 Particulate Matter in Injections.			
RAW MATERIAL ANALYSIS					
Material Identifier:			Batch #		
P50102-64			6096621		
		Specification Ranges			
Property Tested:	Value:	Minimum	Maximum		
Elongation	380	380	1000		
Shore A	60	60	70		
Specific Gravity	0.86	0.86	0.92		
Tensile Modulus	310	310	510		
Tensile PSI	880	880	1500		
Viscosity	473	473	736		

NewAge Industries AdvantaPure® certifies that the above noted product is in full compliance with all referenced specifications unless otherwise noted. This product is not for implantation.

T. Slovik

Date: 2/18/2019

Certification / Calibration Technician - T. Slovik