Consulting on Advanced Biologicals

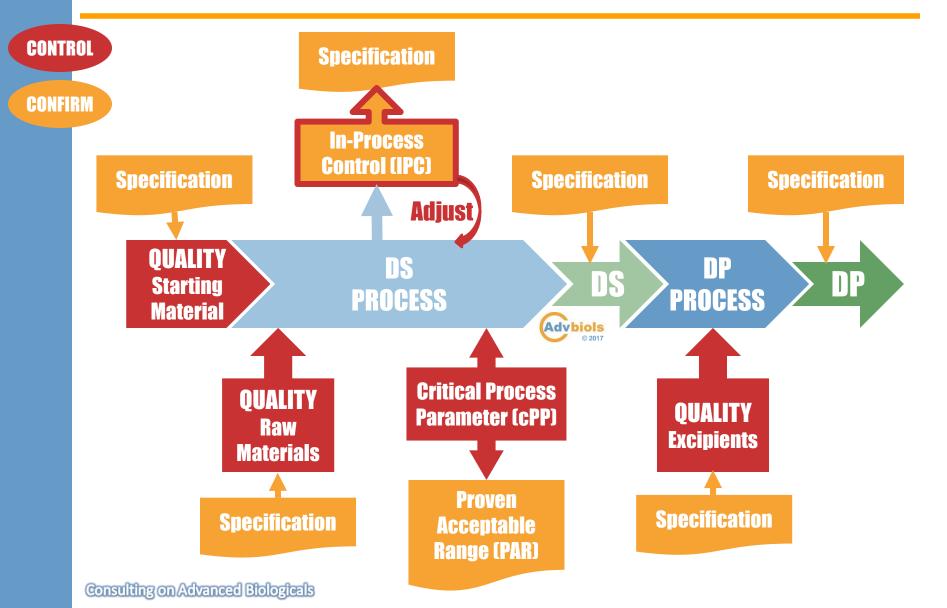
Chair Intro

Christopher A Bravery

CBRAVERY@ADVBIOLS.COM

COMPONENTS OF A CONTROL STRATEGY

Confirmation and Control



BREAKDOWN OF ISSUES RAISED ATMP SUBMISSIONS TO THE EMA SINCE 2001

	Gene Therapy Medicinal Product																
								Cell-based Medicinal Products									
Advbiols © 2017	Cerepro	Advexin	Gendux	Cerepro#2	Glybera	Imlygic	Strimvelis	Zalmoxis	Heparesc	Holoclar	pherox	MAK	Provenge	Hyalograft C	OraNera	ChondroCelect	Apligraf
Process Control	M	M	M		M		0	X	N	V	M	M	M	M	X	Х	M
Starting material							0		de						Х		M
Raw materials quality/spec							Ķ		0	M		X?	Х	M			M
Intermediates										X				M		X	0
In-process testing							?		M	M		X?			X	X?	О
Process parameters											M			Х	Х	Х?	0
Release testing	X	M			IVI		0	M	M	0	M	X	M	M	X	Х	M
Justification of specifications		Х	х		M			X	M _F	Х	X _F	X	М	M	X		0

BREAKDOWN OF ISSUES RAISED - METROLOGY ATMP SUBMISSIONS TO THE EMA SINCE 2001

