Checklist for Protocol of Analysis

TEST		INFORMATION REQUIRED	REMARKS			
Physical Tests	State					
	Deta	Details of test methods shall include the following items:				
Appearance	1	List of equipment and apparatus				
 Colour, Clarity and 	2	List of chemical, reagents and media				
Opalescence	3	Preparation of solutions such as sample, reference standard (if applicable), medium, buffer, etc				
 Visible particles 	4	Volume and temperature of sample solution (if applicable)				
 Subvisible particles 	5	Setting up of analytical instrumentation (if applicable)				
• pH	6	Testing condition/ parameter (if applicable)				
 Osmolarity 	7	Testing procedure				
Moisture content	8	System suitability tests (if applicable)				
Extractable volume						
Dissolution time						
 Homogeneity test 						
• Others						
Identification /	Deta	ils of test methods shall include the following items:				
Characterisation Tests						
 Peptide Mapping 	1	List of equipment and apparatus				
 Identification of 	2	List of chemical, reagents and media				
preservative and active	3	Preparation of solutions such as sample, standard, system suitability solution, mobile phase,				
substance		medium, buffer, etc (the amount of chemical/sample/ standard and volume of diluents used in the				
Precipitate reaction		preparation must be stated)				
 Microscopic 	4	Setting up of analytical instrumentation				
examination	5	Testing condition/ parameter such as HPLC parameter, etc				
Colony morphology	6	Testing procedure				
Virus identification	7	System suitability tests and acceptance criteria of system suitability test.				
 Others 	8	Complete formula for calculation (if applicable) and interpretation of results				
	9	Image of SDS PAGE/ IEF/ electropherogram/ TLC/ UV spectrum/ IR spectrum/HPLC chromatogram				
		etc for blank, sample, standard and system suitability solution				

Assay/ Potency/ Content/	Deta	ails of test methods shall include the following items:	
Dissolution test			
Protein concentration	1	List of equipment and apparatus	
Content of active	2	List of chemical, reagents and media	
ingredient and	3	Preparation of solutions such as sample, standard, system suitability solution, mobile phase,	
preservative		medium, buffer, etc (the amount of chemical/sample/ standard and volume of diluents used in the	
Bioassay/ Potency		preparation must be stated).	
(animal- based, cell		Stability and storage condition of sample and standard solutions	
culture- based and	4	Setting up of analytical instrumentation	
biochemical- based)	5	Testing condition/ parameter such as HPLC parameter, animal criteria, etc	
 Dissolution test 	6	Testing procedure	
Others	7	System suitability tests and acceptance criteria of system suitability test.	
	8	Data analysis, complete formula for calculation (the formula must provide in the unit stated in COA)	
		and interpretation of results	
	9	HPLC chromatogram/ UV spectrum (if applicable) for blank, sample, standard and system suitability	
		solution	
Purity/ Impurities Tests	Deta	ails of test methods shall include the following items:	
Known impurities	1	List of equipment and apparatus	
Unknown Impurities	2	List of chemical, reagents and media	
High Molecular Weight	3	Preparation of solutions such as sample, standard, system suitability solution, mobile phase,	
Protein		medium, buffer, etc (the amount of chemical/sample/ standard and volume of diluents used in the	
Monomer		preparation must be stated)	
Dimer		Stability and storage condition of sample and standard solutions	
 Aggregates 	4	Setting up of analytical instrumentation	
Residual solvent	5	Testing condition/ parameter such as HPLC parameter, etc	
	6	Testing procedure	
	7	System suitability tests and acceptance criteria of system suitability test.	
	8	Data analysis, complete formula for calculation (the formula must provide in the unit stated in COA)	
		and interpretation of results	
	9	Image of SDS PAGE/ IEF/ electropherogram/ TLC/ HPLC chromatogram etc for blank, sample,	
1		standard and system suitability solution.	
		Standard and System Suitability Solution.	

Other Safety Test	Deta	nils of test methods shall include the following items:	
Pyrogen Test	1	Refer to DRUG REGISTRATION GUIDANCE DOCUMENT (DRGD) under GUIDELINE FOR THE	
Bacterial Endotoxins		SUBMISSION OF PROTOCOL OF ANALYSIS (POA)	
Test			
Sterility Test			
Others	Details of test methods shall include the following items:		
Test for absence of	1	List of equipment and apparatus	
virulent mycobacteria	2	List of chemical, reagents and media	
Test for excessive	3	Preparation of solutions such as sample, standard, medium, buffer, etc	
dermal reactivity	4	Testing condition /animal criteria	
 Specific toxicity test 	5	Testing procedure	
 Abnormal toxicity test 	6	Calculation of the result (if applicable) or calculation method used	
(innocuity)	7	animal test: - specific requirement for the animal used such as weight, age, sex (if applicable) etc	
• Others		- dose used and injection technique	