

Certificate of Analysis

Reason for Submission		on:	Release	Corrected	Amended		
LOT	NUMBER:						
PRODUCT NAME:		Recombinant Hepatitis C nucleocapsid protein (p22)					
DESCRIPTION:		Recombinant Hepatitis C nucleocapsid protein (p22) produced in <i>Pichia pastoris</i> . Amino terminal 120 amino acids encodes a 16 kDa protein. Appears as a monomer at ~19 kDa on Western blots (also a dimer at ~34 kDa at higher loads). Reacts with patient sera, polyclonal and monoclonal antibodies as determined by ELISA / Western blot.					
STORAGE:		Supplied frozen and should be stored at -70 °C or below. Aliquots should be dispensed to avoid multiple freeze thaws.					
PACKAGING:		Supplied in cryovials or other suitable container. Vials are filled to contain the exact amount of protein state on the label. Losses will occur when aliquoting.					
DAT	E OF MFG:						
EXPIRY DATE:		Greater than one year form date of receipt					
I. BULK PRODUCT ANALYSIS							
Attribute		bute	Spec	eification	Result		
1.	Physical Characteristics						
1.1	Appearance		Colorless clear	solution			
1.2	Formulation		6 M Urea, 0.25 0.05 M Tris-HO				
1.3	рН		7.5 to 8.5				

QA-545 Rev. 2 Page 1 of 2 7/16/03

	Attribute	Specification	Result		
2	Identity / Purity				
2.1	Molecular Weight by SDS-PAGE	Major band at ~19 kDa. Minor band at ~34 kDa. Comparable to reference lot.			
2.2	Immunospecificity by Western Blot	Major band at ~19 kDa. Minor bands ~34 kDa and two to three minor bands betwe 14 and 19 kDa. Comparable to reference lot.			
3	Potency				
3.1	Protein Concentration by Pierce BCA	Greater than or equal to 1 mg/ml \pm 10%			
Comm	nents: All tests reported	as pass			
	Production Manager or S	cientific Director	Date		

NOT A FINISHED PRODUCT INTENDED FOR FURTHER MANUFACTURING PROCESSING ONLY

BIOHAZARD INFORMATION
No physical or health hazards under OSHA definitions (NOT HAZARDOUS)

QA-545 Rev. 2 Page 2 of 2 7/16/03