# ESKAYEF PHARMACEUTICALS LIMITED

400 Squibb Road, Tongi Industrial Area, Tongi, Gazipur 1711, Bangladesh.

### QUALITY ASSURANCE

#### CERTIFICATE OF ANALYSIS WORKING STANDARD

Name of the Material: Ceftriaxone Sodium Sterile

Working Std. No.: WS-MU09-130

Working standard to be prepared

Manufacturer

: Sinopharm Weiqida

Pharmaceutical Co. Ltd., China

: RM-U09-17-0056

RR No. Batch No. : Q011701011

Mfg. Date Exp. Date :01/17 : 12 / 19 : 100

Number of Vials Prepared Date of Standardization

: 17.08.17 : 16.08.18

Next Standardization Date Long Term Storage Condition : Store in Refrigerator

Shipping Condition

Reference: Attached Sheets

; Ambient Temperature

Reference	standard	used	
2			

Standard Type

: Ceftriaxone Sodium USP RS

Lot / Batch No.

: HOJ296

Reference Standard No. : RS-MU09-157

Water Content

: 10.04 % (KF)

Potency

: 92.40 % as Ceftriaxone on AB

: 83.12 % as Ceftriaxone .

Results
Off-white crystalline powder.
PLC, * Positive by HPLC & Soidum Test
9.10%
84.17 % as Ceftriaxone
92.60 % as Ceftriaxone on AB
a) Impurity at RRT 0.20: 0.0 % b) Impurity at RRT 0.34: 0.0 % c) Impurity at RRT 0.62: 0.1 % d) Impurity at RRT 0.72: 0.0 % e) Impurity at RRT 0.78: 0.0 % f) Impurity at RRT 1.30: 0.0 % g) Impurity at RRT 1.40: 0.0 % h) Any Ind. Un-specified Impurity: 0.0 i) Total Impurities: 0.1 %
1

Prepared by Asst. QC Manager



Checked by Sr. Deputy QC Manager

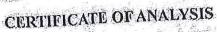
Approved by Sr. QA Manager SINOPHARM WEIQIDA PHARMACEUTICAL CO, LTD

Address: Economic & Technological Development Zone, First Web Site: www.weiqida.com

Medical Zone, Datong, Shanxi, China

+86-0352-7698000 +86-0352-769800,1 Fax:

Postal Code: 037300



No. 3-17-05-B-1-060 DATE:: May.25,2017

INCOUCH				FTRIAXONE SODIUM (STERILE)  Adventoring date Jan. 10, 2017		
Batch No Q011701011		Iviging across		Dec,2019		
Qua		220.00kg	Expiry date		RESULTES	
NALYSIS		SPECIFICATIONS				
			White to yellowish-orange crystalline powder		- Compline	
ppearance			Aith		ed Complies	
entification			B:((11/LC)same retention time with the standard			
			Cili responds to the tests for Sodium  Freely soluble in water, sparingly soluble in methanol, very slightly soluble in alcohol.		Complies	
Solubility			Particles show biretringence and exhibit extinction positions		Complies	
			6.0≤8.0		6.8	
pli			8,0%-11.0%	8.5%		
Water			7 ( T )	≥79.5%	92.4%	
Assay(on the arthydrous basts).			****	≤0.5%	Underectable	
	The state of the s	fotaxime lactone		≤0.5%	Undetectable	
inter Mini	The state of the s	olintosporanie acid		≤1.0%	0.077%	
		e triazine analog		≤0.2%	Undetectable	
Related	Centinxone benzothluzolyloxime		50,5%		0.06%	
substances	Control of the Contro	Deacyl ceffrinxone		≤0/3%	Undetectable	
		efiriaxone 3-ene isomera Sefiriaxone B-isomer		<u>≤0,5%</u> a -	Undetectable	
		ident unspecified impurity		<1),2%	Undetectable	
	100	Total impurities		\$2.5%	0,34%	
Signify.		وخبال	Sicilly	Compiles Compiles		
Bucterial Endotoxins  Particulate Matter				<u>, ≤0,2EU/mg</u>	149	
			≥10µm- ≤3000		19	
			<u>≥25µm</u> ≤300		-1640	
Specific optical rotation			-155%-170° 0,40-0,65g/ml-		0.49g/ml	
Bulk density Tapped Tapped		A STATE OF THE STA	0.50~0.75g/ml		0,56g/ml	
		D(90)(100uin-350uin		141.6um		

Conclusion: Conform to USP38 and Internal Standards.

NAME OF ISSUING BANK COMMUNICIAL BANK OF CEVLON PLEBANGLADESH

IJC NUMBER (265517020274 DATE (170522

HOO4382 ARTELLS CODE SUMPERCIES IRC NO.BA-0168960, LCA NO.80783, TIN:130,399322525, VATZHIN REGISTIL

Approved 0

Head-QO A

## ESKAYEF PHARMACEUTICALS LIMITED

Cephalosporia Plant (Manufacturing Unit-09) 400, Tongi Industrial Area, Squibb Road, Tongi, Gazipur, Bangladesh



#### QUALITY ASSURANCE

#### CERTIFICATE OF ANALYSIS

RAW MATERIAL : RM0054 RM Code : Ceftriaxone Sodium Sterile Materials : COOL Storage : 22 x 10 Kg Receiving : Sinopharm Weiqida Manufacturer = 220 KgQuantity Pharmaceutical Co. Ltd., China : RCT170077 Ana. Ref. No. : Scaled in aluminium container in sealed Packing : Sînopharm Weiqida : RM-U09-17-0056 Supplier master carton. RR No. Pharmaceutical Co. Ltd., China : 13-06-17 to 13-06-17 : Q011701011 Bx./Lot No. Sampling Date :13.06.17 Date Received : 01/17 . Mfg. Date Container Sampled :1 RR Rev. date by QC :13.06,17 : 12/19 Exp. Date : 70 g **Quantity Sampled** :92,4% as Celtriaxone on AB Declared Potency : 07/18 : 14-06-17 to 19-07-17 Re-evaluation Analysis Date :83.9 /% as Ceftriaxone

		US	P	SK+P	RESULT
	TEST	SPECIFICATION		SPECIFICATION	Off white crystalline powder.
1	Description	White to yellowish orange crystalline powder		Saine	1 g soluble in 5 ml water:
+	-v	Freely soluble in water, sparingly soluble in methanol and very slightly soluble in alcohol  Meet IR, HPLC, Test for Sodium  Particles show birefringence and exhibit extinction positions  6.08.0		Freely soluble in water	Stant First Inc
	Solubility			Meet IR / HPLC, Test for Sodium	Positive by HPLC & Na Test
3	Identification			Same	Particles show birefringence and exhibit extinction positions.
4	Crystallinity				6.6
5	pH			- Same	9.0 %
- 1	Water	8.0 - 11.0	) % (KF)	Same	83.9 % as Ceftriaxone
-	THE CONTRACT OF THE CONTRACT O	CONTRACTOR OF THE PROPERTY OF		Same	92.2 % as Ceffriaxone on AB
07 Assay		NLT 79.5 % as Ceftriaxone on AB		A STATE OF THE STA	Impurity at RRT 0.20: 0.0 %
<u>an lang lang ang ang ang ang ang ang ang ang ang </u>		a) Impurity at RRT 0.20; NMT 0.5 % b) Impurity at RRT 0.34; NMT 0.5 %			Impurity at RRT 0.34: 0.0 %
	Impurity at RRT 0.62 : 0.1 %				
	·	c) Impurity at RRT	0,62; NMT 1.0 %		Impurity at RRT 0.72 : 0.0 %
		d) Impurity at RRT	0,72 : NMT 0.2 %		Impurity at RRT 0.78: 0.1 %
	***	SA SULEDET	0.78 : NMT 0.5 %	Same	Impurity at RRT 1.30 : 0.0 %
08	Impurity		1.30 : NMT 0.3 %	#	Impurity at RRT 1,40 : 0.0 %
		e) Impurity at RR	T 1.40; NMT 0.5 %		Any Ind. un-specified Impurity; 0.0. %
		In Any Ind. un-specific	ed Impurity:: NMT 0.2 %		Total impurities : 0.1
		i) Total Impurit	ies : NMT 2,5 %		No microbial growth found
10110 10110 10110 1011 1011 1011 1011			terila	Same	Less than 0.2 USP EU/ mg
09	Sterility Test	NMT 0.2 USP EU	per mg of Cestriaxone	Same	Less tight v.z our co. mg
10	Bacterial endotoxins	T - Shakara	Tenner	2 1 2 1 4 5 000	220
ldd	itional Tests	The state of the s	. S	≥ 10 µm particle: NMT 6000	2.
11 P	Particulate Matter (No. of particle per g)		;	≥ 25 µm particle: NMT 600	158.0 ° on AB
12		Park		- 155,0° to - 170,0° on AB	0,49 g/cc
12	Sh' Almen wares			Untapped: 0,40 - 0,65 g / ce	0.60 g/cc
13	Bulk Density	And the second s	AA HOUSE	Tapped: 0.50 - 0.75 g / cc	150 µm.
	Particle size (by Malvern		275	Dv 90; 100 μm to 350 μm	Promoner of the Part of the Pa
14	MS 3000)		والمراجع والمستعدد والمستعدد والمستعدد والمستعدد والمستعدد	The second secon	Methanol = 759 ppm, Ethanol = 0 ppm, Acetone = 176 ppm, Acetonitrile = 2 ppr
35-3		100	74	Must meet USP requirements (USP	Dichloromethane = I ppm.
15	Residual Solvents		E-NEW A	467)	120 S.F. T.

Ok Remarks :

95 & 97 Book -Reference :

226, 189 & Attached Sheet Page -

24,0 + 154K: 2718079

Checked by 29726 - 00202, NAIR

· Qazi Asif Mahmood

Milan Mahboob

Sr. Quality Assurance Manage

Sampled by Md. Saiful Islam Quality Control Executive

Prepared by Md. Saiful Islam Quality Control Executive

C2-1

Asst. QC Manager