

Kalchem International

Chemicals & Compounding Supplies

Certificate of Analysis

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LETCO MEDICAL: Item/Lot Number(s)			
Item: 684393	Item: 684394	Item: 690869	
Lot: 1602230160	Lot: 1602230161	Lot: 1602230162	

Description:	Acetaminophen Powder USP	Source Lot:	1511706	Expiration Date:	10/26/2019
Date of MFG:	10/27/2015	Specification:	USP38		

Tests	Specification	Test Reference	Results
Characteristic	White, odorless, crystalline powder; having a slightly bitter taste. Freely soluble in alcohol; soluble in boiling water and in 1N sodium hydroxide	USP monograph for Acetaminophen	Conforms
Identification * (IR)	A & B should be positive	USP Monograph for Acetaminophen	Conforms
Loss on drying	≤0.5%	USP <731>	0.07%
Residue on Ignition	≤0.1%	USP <281>	0.04%
Heavy Metals	≤10ppm	USP <231> method II	<10ppm
Limit of free 4-Aminophenol	≤0.005%	USP Monograph for Acetaminophen, HPLC method	5.9ppm
Organic Impurity	Related compound B: ≤0.05% (N-(4-Hydroxyphenyl) propanamide)	USP Monograph for Acetaminophen, HPCL method	0.009%
	Related compound C: ≤0.05% (N-(2-Hydroxyphenyl) Acetamide)		0.008%
	Related compound D: ≤0.05% (N-Phenylacetamide)		0.027%
	Related compound J: ≤0.001% (p-chloroacetanilide)		ND*
	Individual unspecified impurity: ≤0.05%		0.001%
	Total Impurities: ≤0.1%		0.04%
Assay	98.0-102.0% (on the dried basis)	HPLC method	99.8%
Residual Solvents	Glacial acetic acid is used in Acetaminophen production, and it can be determined by Loss on Drying not more than 0.5%		
Conclusion	It conforms to USP 38.		

*ND means not detected

Letco Medical QA Review By/Date: Latonya Owens

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