

## **PRODUCT SPECIFICATION**

Product : **Chlortetracycline HCL**

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Appearance : Yellow powder

Identification

(First identification: C,D

Second identification :A,B,C) : A thin-layer Chromatography, B as description of EP8.0,C  
Reaction of chlorides, D HPLC identification

pH value : 2.3 ~ 3.3

Specific rotation : -235° ~ -250°

Absorbance : ≤ 0.40

Heavy metals : ≤ 50 ppm

Water : ≤ 2.0 %

Sulphated Ash : ≤ 0.5 %

Related substances : Impurity A ≤ 4.0 %  
Impurity B ≤ 1.0 %  
Impurity E ≤ 1.0 %  
Impurity J ≤ 0.3 %  
Impurity D ≤ 0.2 %  
Impurity G ≤ 0.2 %  
Impurity H ≤ 0.2 %  
Impurity L ≤ 0.2 %  
Impurity K ≤ 0.15 %

Unspecified impurities : ≤ -10 %

Sum of impurities other than A: ≤ 2.0 %

Assay : CTC.HCl (anhydrous substance) ≥ 89.5 %  
TC.HCl (anhydrous substance) ≤ 6.0 %  
CTC.HCl+TC.HCl (anhydrous substance) 94,5 % ~ 102.0 %



MSDS : available upon request