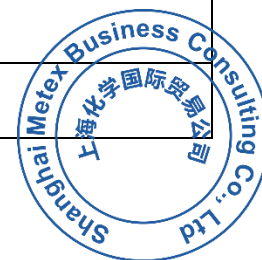


**Certificate of analysis of PBTC 50%**  
**(2-Phosphonobutane-1, 2, 4-Tricarboxylic Acid)**

Manufacturing Date	Batch No
8-Dec-19	2019120801

TEST ITEM	STANDARD	RESULT
Appearance	Colorless or light yellow transparent liquid	Light yellow transparent liquid
Active content	49-51 %	50.25
Phosphoric Acid (as $\text{PO}_4^{3-}$ ) %	0.2 max.	0.08
Phosphoric Acid (as $\text{PO}_3^{3-}$ ) %	0.5 max.	0.17
Density (20°C) $\text{g/cm}^3$	1.27-1.3	1.278
PH value (1% water solution)	1.5-1.9	1.83
Chloride (Cl) , ppm	10 max.	2.3
Iron (Fe) , ppm	10 max.	4.7
Color (APHA)	40 max.	26
Density (25° C) , $\text{g/cm}^3$	1.265-1.3	1.276
Turbidity	10 NTU max.	2.1



Tester: 

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