



## AnMar International Ltd.

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### SPECIFICATION SHEET D-Biotin, USP

Item Code: 028

Country of Origin: China

Updated: June 2012

#### TEST ITEMS

#### SPECIFICATIONS

#### TEST METHODS

Appearance	White or off-white crystalline powder	Visual
Identification	To meet requirements	Infrared Absorption
Specific Rotation	+ 89° - + 93°	Spectropolarimeter
Organic Volatile Impurities	Certified (To meet USP requirements)	
Residual Solvents (Toluene)	≤ 890 ppm	USP<467>
Related substances	To meet requirements	
Appearance of solution	Clear & colorless	
Heavy metals*	≤10 ppm	
Lead	≤3 ppm	AAS
Arsenic	≤1 ppm	AAS
Cadmium	≤1 ppm	AAS
Mercury	≤0.1 ppm	AAS
Melting point	229°C - 232°C	
Loss on drying	≤1.0%	
Sulfated ash	≤0.1%	
Organic Volatile impurities	To meet USP requirements	USP<467>
Assay	97.5% - 100.5%	Titrimetry method
Mesh Size	100% through 300 mesh	
Microbiology:*		
Total aerobic plate count	≤ 1,000 cfu/g	
Yeast & Mold	≤ 100 cfu/g	
E. coli	Negative	
Coliforms	Negative	
Staphylococcus aureus	Negative	
Salmonella	Negative	

Conclusion: Meets USP specifications

\*Note- All heavy metal and microbiological tests are performed by manufacturer as per skip-lot testing protocol

Packing: 1 kg tins  
Shelf Life: 3 years

- Kosher certified

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