

PRODUCT IDENTITY

PRODUCT NAME	Quinine sulfate dihydrate	PRODUCT NUMBER	Q110176
Grades & Purity	BioReagent, for fluorescence analysis, Moligand™, ≥99%	VERSION	3
CAS NUMBER	6119-70-6	FORMULA	C ₄₀ H ₄₈ N ₄ O ₄ ·H ₂ SO ₄ ·2H ₂ O
FORMULA WEIGHT	782.95g/mol		

ACCEPTANCE CRITERIA

PARAMETER	SPECIFICATION / LIMIT
Water by Karl Fischer	2-6 (%)
Specific Rotation [α] ₂₀ /D(c=2 in 0.1 M HCl)	-245~-225 (°)
Purity (Titration by NaOH)(anhydrous)	98.5-101.5 (%)
dihydroquinine sulfate (HPLC)	0-10 (%)
Appearance (Q110176)	White to Off-White Powder
Fluorescence, λ _{ex} 347 nm; λ _{em} 448 nm in 0.5 M sulfuric acid	Conforms
Proton NMR spectrum	Conforms to Structure
suitability for fluorescence	pass