



ORIENTAL YEAST CO., LTD.

OSAKA BIO PLANT

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03/17/11

SPECIFICATIONS



β -Nicotinamide-mononucleotide, oxidized form

Formula: $C_{11}H_{15}N_2O_8P$

Formula weight: 334.22 (as anhydrous free acid)

Purity	\geq	95% (HPLC)
Water contents	<	8% by Karl Fischer method
Spectral analysis		
1. ϵ at 260 nm and pH 7.5		$(4.2 \pm 0.2) \times 10^3 \text{ L} \cdot \text{mole}^{-1} \cdot \text{cm}^{-1}$
2. Ratio at pH 7.5	A_{265} / A_{260}	1.08 ± 0.03
	A_{280} / A_{260}	0.21 ± 0.02
Metal Contents		
1. Mg	\leq	0.001%
2. Ni	\leq	0.001%

for laboratory use only