



Bialaphos Sodium - PRODUCT DATA SHEET

Version 2.0

Revision Date: 14/09/2011

Product Name: Bialaphos Sodium

Product Number: B013

CAS Number: 71048-99-2

Chemical Formula: $\text{NaC}_{11}\text{H}_{21}\text{N}_3\text{O}_6\text{P}$

Structure: N/A

Molecular Weight: 345.27

Appearance: Pale, orange-colored powder

Description: Bialaphos is a tripeptide antibiotic and herbicide naturally produced by a few species of the soil bacteria, *Streptomyces*. It is made up of two alanine residues and the glutamic acid analog phosphinothricin and is commonly used as a gene sector in plants. Resistance plasmids include: pGreenII 0229 and pGreenII 0229 62-SK. pGreenII 0229 is derived from pGreenII 0000, a nos-bar cassette has been inserted into the HpaI site of the Left Border, providing resistance to bialaphos or phosphinothricin during plant transformation selection. pGreenII 0229 62-SK is derived from pGreenII 0229, the LacZ blue/white cloning selection has been replaced with a 35S-MCS-CaMV cassette that allows the insertion of a gene of interest into a 35S over-expression cassette.

Storage Temperature: 2-8°C, store protected from light.