

CERTIFICATE OF ANALYSIS

Product Description: G418 SULFATE
GENETICIN®
Product Number: G810
Lot Number: 14F0810027
Storage Temperature: 2-6 °C Protect from moisture & light
Molecular Weight: 692.7
Formula: $C_{20}H_{40}N_4O_{10} \cdot 2H_2SO_4$
CAS Number: 108321-42-2

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|--|---------------------------------------|---------------------------|
| Solubility | Soluble in Water @ 50 mg/mL | Passes |
| pH | Under Development | 5.8 |
| Physical Appearance Color* Texture | PM-1 to PM-4 Fine to Coarse Powder | PM-1 White Fine Powder |
| Solution Appearance Clarity Color | Clear Colorless | Clear Colorless |
| Average Time to Dissolve | Within 1 min | Passes |
| Insolubles | None | Passes |
| FTIR | Conforms to Structure | Passes |
| Potency | Minimum 700 units/mg | 785 u/mg (on dried basis) |
| Water Content | For Information Only | 3.5% |

* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

PhytoTechnology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTechnology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Recommended Shelf Life Date: June 2019



Gary Seckinger, Ph.D.



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