

CERTIFICATE OF ANALYSIS

Product Description X-GAL
Product Number X874
Lot Number 11G0874007
Storage Temperature -20-0°C
Molecular Weight 408.63
Formula $C_{14}H_{15}BrClNO_6$
CAS Number 7240-90-6

Physiochemical Specifications:

| TEST | SPECIFICATION | RESULTS |
|--|---|-------------------------------------|
| Solubility | Soluble in DMSO @ 10 mg/mL | Passes |
| Physical Appearance Color* Texture | RM-1 to RM-3, RM-31 Fine Powder, may form clumps | RM-31 White Fine Powder w/clumps |
| Solution Appearance Clarity Color | Clear Colorless | Clear Colorless |
| Average Time to Dissolve | Within 1 min | Passes |
| Insolubles | None | Passes |
| Purity (by HPLC) | Minimum 99.0% | 99.4% |
| Identity by 1H -NMR | Conforms to Structure | Passes |
| Moisture (by KF) | For Information Only | 0.1% |

*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: January 2014



Gary Seckinger, Ph.D.



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