

## Certificate of Analysis

**Product Name:** Putrescine, free base  
**Cat #:** P-245  
**CAS #:** 110-60-1  
**Lot #:** Lot Specific  
**Retest Date:** Lot Specific  
**Storage:<sup>†</sup>** Store at 4°C. Protect from light.

Test	Specs	Results
Color	colorless or white	colorless
Form	clear liquid or solidified mass	clear liquid
Water Content (K. Fischer)	max. 1.0%	0.4%
Refractive Index n <sub>20</sub> /D	1.455 to 1.459	1.455
Purity (GC)	min. 99.0 area-%	100.0 area-%
FT-IR Spectrum	corresponds to reference spectrum	corresponds

\* Gold Biotechnology, Inc. provides this Certificate of Analysis in good faith and to the best of its knowledge. It should not be substituted for the user's own raw material quality control. This material is for laboratory use only.

† Storage at listed temperature applies to retest date (if shown) or two years from purchase date. Check label for long term storage conditions, which may extend the product beyond the retest date and/or greater than two years from purchase.

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