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Certificate of Analysis

Product Description: n-Undecane
Catalog Number: 158231
Lot: Q3210**Formula:** C₁₁H₂₄
CAS #: 1120-21-4
Physical Description: Clear, Colorless Liquid**Formula Weight:** 156.3
Storage: Room Temperature

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥99%	99.70%
FTIR	Conforms to Standard	Conforms to standard

Branched undecanes: 0.09%
Carbon #'s <C-11: 0.01%
Carbon #'s >C-11: 0.20%
Freezing point: -26°C
Boiling point: 196°C
Refractive Index: 1.4173 nD @ 20°C
Specific gravity: 0.7402 @ 20°C
Recommended Retest Date: 11/30/2024

A handwritten signature in black ink, appearing to read 'J Huang'.

11/12/2015 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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<mailto:biotech@mpbio.com>
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