

Product SPRUCE ESSENTIAL OIL

Lot #0016476Manufacturing Date09/2022Shelf Life3 years

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Colorless – Slightly Yellow	Conform
Odor	Characteristic	Conform
Specific Gravity @ 20°C	0.875 - 0.898	0.889
Refractive Index @ 20°C	1.460 -1.480	1.470
Optical Rotation	-60.0 to -38.0	-45.7



Product SPRUCE ESSENTIAL OIL

 Lot #
 0015977

 Manufacturing Date
 07/2022

 Shelf Life
 3 years

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Colorless - Slightly Yellow	Conform
Odor	Characteristic	Conform
Specific Gravity @ 20°C	0.875 - 0.898	0.891
Refractive Index @ 20°C	1.460 -1.480	1.470
Optical Rotation	-60.0 to -38.0	-45.3



Product SPRUCE ESSENTIAL OIL

Lot # 0014347

Manufacturing Date 02/2022
Shelf Life 3 years

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Colorless – Slightly Yellow	Conform
Odor	Characteristic	Conform
Specific Gravity @ 20°C	0.875 - 0.898	0.890
Refractive Index @ 20°C	1.460 -1.480	1.472
Optical Rotation	-60.0 to -38.0	-43.0



Product SPRUCE ESSENTIAL OIL

Lot #0012430Manufacturing Date07/2021Shelf Life3 years

Properties	Specifications	Results
Appearance	Liquid	Conform
Color	Colorless - Slightly Yellow	Conform
Odor	Characteristic	Conform
Specific Gravity @ 20°C	0.875 - 0.898	0.891
Refractive Index @ 20°C	1.460 -1.480	1.470
Optical Rotation	-60.0 to -38.0	-45.8



Product SPRUCE ESSENTIAL OIL

 Lot #
 0013211

 Manufacturing Date
 04/2021

 Shelf Life
 3 years

Properties	Specifications	Results	
Appearance	Liquid	Conform	
Appearance	•	Comoni	
Colour	Colorless – Slightly Yellow	Conform	
Odour	Characteristic	Conform	
Specific Gravity @ 20°C	0.875 - 0.898	0.891	
Refractive Index @ 20°C	1.460 -1.480	1.470	
Optical Rotation	-60.0 to -38.0	-45.8	



Product SPRUCE ESSENTIAL OIL

 Lot #
 0009501

 Shelf Life
 3 years

Properties	Specifications	Results	
Appearance	Liquid	Conform	
Colour	Colorless - Slightly Yellow	Conform	
Odour	Characteristic	Conform	
Specific Gravity @ 20°C	0.875 - 0.898	0.890	
Refractive Index @ 20°C	1.460 -1.480	1.469	
Optical Rotation	-60.0 to -38.0	-44.9	



Product SPRUCE ESSENTIAL OIL 4986514

Shelf Life

Properties	Specifications	Results	
Odor	Characteristic	Conform	
Optical Rotation	Characteristic	-17.6 deg.	
Refractive Index @ 20 C		1.469	
Specific Gravity @ 25 C		0.896	