CERTIFICATE of ANALYSIS (COA) Black Pepper CO2 Extract OR

COMMON NAME	Pepper, Black
LATIN NAME	*Piper Nigrum*
COUNTRY OF ORIGIN	India, Sri Lanka, Madagascar
CULTIVATION METHOD	Conventional, Organic
TYPE	Oil/Oleoresin
EXTRACTION METHOD	Supercritical Fluid Extraction
PLANT PART	Dried Fruits
USE	Aromatherapy, Natural Perfumery

SKU	
LOT #	
MANUFACTURING DATE	
BEST BY DATE	

	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20˚C	0.8515– 0.9015	0.8677
REFRACTIVE INDEX @20˚C	1.450 – 1.500	1.483
OPTICAL ROTATION @20˚C	-18.0˚ to + 1.0˚	-15.00˚

PHYSICAL APPEARANCE	Transparent liquid	*Conforms*
COLOR	Colorless to pale yellow/green	*Conforms*
ODOR	Sharp, stimulating and spicy, the aroma of freshly ground pepper	*Conforms*
SOLUBILITY	Soluble in alcohols and oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

COMPONENTS	**RANGE %**	**%**		**COMPONENTS**	**RANGE %**	**%**
Piperine	10-40%			Limonene	12-20%	
Beta - Caryophyllene	12-18%			Alpha-Pinene	2-4%	
Delta -3- Carene	1-3%			Sabinene	1-6 %	
Beta-Pinene	5-9%					

PRIMARY CONSTITUENTS	Piperine, Beta-Caryophyllene, Delta-3-Carene, Beta-Pinene

COMMENTS	Odor quality is excellent.

This CO2 Total Extract is an authentic natural product and does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to Nutraceutex. This product is guaranteed by Nutraceutex to be of excellent quality

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