

# CERTIFICATE OF ANALYSIS

## Product and Batch Informations

ST JOHN'S WORT AERIAL PART EXTRACT 4/1

ref: MILLEPA\_1001

Latin name	<i>Hypericum perforatum L.</i>	Plant part	Aerial plant (Flowering)
Solvent (%)	100% water	Carrier (%)	20-40% maltodextrin
Extract ratio	4/1	Country of plant origin	Europe
Batch	NAT20210368	Country of manufacturing	Europe
MF date	05/02/2021	Expiration date	29/02/2024

ANALYSIS ITEM	SPECIFICATION	RESULT	TEST METHOD
<b>Active Ingredients/Substance to control</b>			
Assay	-	-	-
Substance to control *	Hypericin, hyperforin	Traces (<20 ppm)	HPLC
<b>Physical/Chemical Control</b>			
Appearance**	Brown, fine powder	Complies	Visual inspection
Identification*	Positive	Complies	TLC (Detection of Rutin, h-Veroside h-Vericin)
Sieve analysis	NLT 90% through 300microns	Complies	Circular Vibrating Screener
Loss on drying	NMT 5.0%	Complies	105 °C- 3 hours
<b>Contaminant Control*</b>			
Heavy metals	NMT 10ppm	Complies	Atomic absorption
Lead (Pb)	NMT 3ppm	Complies	Atomic absorption
Cadmium(Cd)	NMT 1ppm	Complies	Atomic absorption
Mercury (Hg)	NMT 0,1ppm	Complies	Atomic absorption
Pesticides Residues	Comply to Reg. (EC) No. 396/2005	Complies	GC-MS
PAHs	NMT 50ppb	Complies	GC-MS
Benzo(a)pyrene	NMT 10ppb	Complies	GC-MS
<b>Microbiological Control</b>			
Total aerobic microbial	NMT 50 000 cfu/g	Complies	As per Eur. Ph
Tot. yeast and mould	NMT 500 cfu/g	Complies	As per Eur. Ph
Bile tolerant gram- bacteria*	NMT 100 cfu/g	Complies	As per Eur. Ph
Salmonella*	Negative/25g	Complies	As per Eur. Ph
E.Coli *	Negative/1g	Complies	As per Eur. Ph
<b>Allegations</b>			
Allergens	Allergen free/specify if any		
GMO	No OGM		
Irradiation	No irradiation		
<b>Packing and Storage</b>			
Packing	Suitable for food industry		
Storage	Store in its closed original packaging at room temperature (5-25°C), away from heat, direct light and moisture		

\*According to a control plan

\*\*Depending to variations of raw material