



Raya Derm MP

ExperChem

INCI name: Pentylene Glycol
Magnolia officinalis bark extract
Paeonia lactiflora root extract

Compounds: 1,2-Pentenediol
Magnolia Bark Extract
Penny Root Extract

Trade name: Raya Derm MP

Cas-No.: 5343-92-0 (1,2-Pentenediol)
528-43-8 (Magnolol)
35354-74-6 (Honokiol)
23180-57-6 (Peony root extract)

Application: solvent
skin care
antimicrobial

Packaging: in plastic cans

Filling quantity: 10, 20, 25 kg per plastic can

Shelf life: up to 2 years, not opened

Storage conditions: dry and cool
avoid direct sunlight and heat

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Raya Derm MP

Item	Standard
Appearance	colorless to pale yellow liquid
Refractive index (20 °C)	1,443
Specific gravity g/ml (25 °C)	0,977
pH value	5,7

Use level: 3,0 % - 5,0 %

Microbiological Challenge Studies

Raya Derm MP (3%)

Investigation	0 h	7 d	14 d	28 d
<i>Pseudomonas aeruginosa</i> ATCC 9027	$6,4 \times 10^5$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$
logarithmic reduction values	---	$> 4,81$	$> 4,81$	$> 4,81$
<i>Staphylococcus aureus</i> ATCC 6538	$6,9 \times 10^5$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$
logarithmic reduction values	---	$> 4,84$	$> 4,84$	$> 4,84$
<i>Escherichia coli</i> ATCC 8739	$6,1 \times 10^5$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$
logarithmic reduction values	---	$> 4,79$	$> 4,79$	$> 4,79$
<i>Candida albicans</i> ATCC 10231	$9,3 \times 10^4$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$
logarithmic reduction values	---	$> 3,97$	$> 3,97$	$> 3,97$
<i>Aspergillus brasiliensis</i> ATCC 16404	$9,8 \times 10^4$	---	$4,9 \times 10^2$	$2,9 \times 10^2$
logarithmic reduction values	---	---	2,30	2,53

All bacteria counts are expressed in CFU/g or ml (CFU = colony forming units)

Raya Derm MP (4%)

Investigation	0 h	7 d	14 d	28 d
<i>Pseudomonas aeruginosa</i> ATCC 9027	$6,4 \times 10^5$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$
logarithmic reduction values	---	$> 4,81$	$> 4,81$	$> 4,81$
<i>Staphylococcus aureus</i> ATCC 6538	$6,9 \times 10^5$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$
logarithmic reduction values	---	$> 4,84$	$> 4,84$	$> 4,84$
<i>Escherichia coli</i> ATCC 8739	$6,1 \times 10^5$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$
logarithmic reduction values	---	$> 4,79$	$> 4,79$	$> 4,79$
<i>Candida albicans</i> ATCC 10231	$9,3 \times 10^4$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$	$< 1,0 \times 10^1$
logarithmic reduction values	---	$> 3,97$	$> 3,97$	$> 3,97$
<i>Aspergillus brasiliensis</i> ATCC 16404	$9,8 \times 10^4$	---	$2,6 \times 10^2$	$2,5 \times 10^2$
logarithmic reduction values	---	---	2,58	2,59

All bacteria counts are expressed in CFU/g or ml (CFU = colony forming units)



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Additional benefits:

- Antioxidant effects → UV-protection
- Compatible with key raw materials
- Whitening effect of skin tone
- Anti-inflammatory
- Non-GMO
- Free of heavy metals
- Made in Germany

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