



## 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)



## Raya Derm MP

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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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