

Mustard Glucan 301

Research continues to reveal countless beneficial effects of this cosmetic ingredient as a skin care and hair care ingredient. This new glucan is reported to:

- induce immune functions to accelerate immune responses,
- promote cellular activity and cell growth,
- reduce the appearance of wrinkles and fine lines,
- acts as a skin moisturizer and skin softener,
- helps to strengthen the hair shaft.

Mustard Glucan 301 will allow you to incorporate such benefits into your formulations and deliver them to your customers. Isolated from mustard mucilage, **Mustard Glucan 301** is a natural water based polysaccharide that exhibits shear thinning flow behaviour and a weak gel-like structure. Our product coats the epidermis and the hair shaft to act as a barrier against harsh environmental conditions, external pollutants and allergens. **Mustard Glucan 301** can be used the same way as any chemically engineered synthetic gum and can provide notable emulsifying capacity and superior suspension ability to cosmetic formulations.



Description:

Mustard Glucan 301 is isolated from mustard mucilage and produced from yellow mustard seed using our proprietary processing technology without the use of alcohols. This plant based polysaccharide is clear in appearance and has a fluid-like consistency. **Mustard Glucan 301** can interact synergistically with a number of polysaccharides such as locust bean, guar, xanthan, agar and carrageenan gums resulting in gel formation and increased viscosity. Such behaviour allows for the product to be used alone as a thickener or in conjunction with other gums which ultimately leads to new product concepts.

Functionality:

Mustard Glucan 301 is an ideal ingredient in cosmetic formulations as it can be used as a skin conditioner, emollient, film former, viscosity controlling agent and a viscosity building agent for aqueous systems.

Applications:

Mustard Glucan 301 forms a thin film when applied to the skin and hair, making it an excellent moisturizing ingredient. **Mustard Glucan 301** has been highly effective in cosmetic formulations for lotions, creams and anti-aging products, as well as hair care product formulations.

Proposed INCI Name: Water (and) Brassica Alba (Mustard) Seed Extract

Specifications:

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| Appearance: | Clear, yellow liquid |
| Odour: | Light, pleasant |
| Bacteriological Data: | Total bacteria count (aerobic): <500 cfu/g (At the time of packaging) |
| Preservatives: | Dehydroacetic Acid and Benzyl Alcohol and Water, 0.6% |
| Compatibility: | Miscible in aqueous solutions |
| pH: | 4.5 – 6.3 |
| Non-Volatile Matter: | 1.0% to 3.0% |
| Stability: | Stable at room temperature. Store in original container under 20°C. Do not freeze. |
| Recommended Usage Level: | 1% to 15% (wt/wt) |
| Formulating pH: | The recommended pH range is 3 to 8. |
| Formulating Temperature: | The recommended working temperature range is 25°C to 75°C. The best working temperature is 50°C. |

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