

# Natural Deodorant Formulation

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Purified Water	Water	59.60	Local
FSS Hydroxyethylcellulose (HEC)	Hydroxyethylcellulose	0.50	Formulator Sample Shop
<b>Phase B</b>			
FSS Sodium Phytate	Sodium Phytate	0.15	Formulator Sample Shop
FSS Propanediol	Propanediol	15.00	Formulator Sample Shop
Sodium Stearate OP-100V	Sodium Stearate	5.00	Formulator Sample Shop
<b>Phase C</b>			
FSS Rice Starch Powder	Oryza Sativa (Rice) Starch	2.00	Formulator Sample Shop
FSS Pearl Powder	Pearl Powder	2.00	Formulator Sample Shop
FSS Botanical Sugar Complex	Tapioca Starch & Lactobacillus Ferment Lysate	2.00	Formulator Sample Shop
FSS Saccharomyces Ferment	Saccharomyces Ferment	2.00	Formulator Sample Shop



All products should undergo stability testing and Microbial/Challenge Testing. These formulations are intended for use as starting formulas and may be altered as needed.

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# Natural Deodorant Formulation(Continued)

Trade Name	INCI Name	%	Vendor
<b>FSS Witch Hazel Extract NS PF</b>	Water & Hamamelis Virginiana (Witch Hazel) Bark/Leaf/Twig Extract	2.00	<b>Formulator Sample Shop</b>
<b>FSS White Willow Bark Extract Powder</b>	Salix Alba (White Willow) Bark Extract	2.00	<b>Formulator Sample Shop</b>
<b>Leucidal® Liquid</b>	Leuconostoc/Radish Root Ferment Filtrate	2.00	<b>Formulator Sample Shop</b>
<b>AMTicide® VAF</b>	Bacillus Ferment & Saccharomyces Ferment Filtrate	0.75	<b>Formulator Sample Shop</b>
<b>AMTicide® Coconut</b>	Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	3.00	<b>Formulator Sample Shop</b>
Unisex Fragrance N44188	Fragrance	1.000	Carrubba
<b>Phase D</b>			
Sodium Hydroxide (25%) Solution	Water & Sodium Hydroxide	1.00	EMD Performance Materials

## Formulation Guidelines

1. Combine Phase A by dispersing FSS Hydroxyethylcellulose (HEC) to water until gelled & clear. Heat to 70-75°C.
2. At 60-65°C add Phase B to Phase A until uniform after each addition with continued heat. Avoid over mixing.
3. Add Phase C to Phase AB one by one until uniform after each addition.
4. Add Phase D with mixing until uniform.
5. Pour to molds at 60-65°C, avoid long exposure to heat



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