

REVIEW ARTICLE

A review on Oriflames royal velvet skin care products and their applications

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ABSTRACT

Oriflame Royal Velvet Cream contains a powerful fusion of Iris flower isoflavones and precious meteorite minerals. This modern miracle reinforces the skin's resilience and restores bounce. Iris Isoflavones extract is derived from the majestic Iris flower and is a proven anti-oxidant, with exceptional anti-ageing properties to help revitalise and drastically improve skin firmness. Black Iris Infusion technology stimulates skin firming matrix and hence skin looks firm and smooth.

This review attempts to guide the reader between the various Oriflames Royal Velvet skin care products and their applications, with a particular focus on Royal Velvet Firming Day Cream SPF 15. Paper also deals with FTIR spectra of Royal Velvet Firming Day Cream SPF 15. This research, along with better regulation and reporting, will enable consumers to choose products with confidence. This in turn will allow companies to benefit from these novel technologies in the long term while retaining customer confidence.

FTIR can be routinely used to identify the functional groups and identification/quality control of raw material/finished products. An FTIR spectrum of Royal Velvet Firming Day Cream SPF 15 is obtained at room temperature by using an FTIR Spectrophotometer - Perkin Elmer - Spectrum RX-IFTIR. The spectrum is collected in a range from 650 to 4000 cm^{-1} .

Interpretation of FTIR Spectra of Royal Velvet Firming Day Cream SPF 15 shows presence of various functional groups such as Alcohols - Secondary CH-OH ; Alkane - Iso - propyl, Tertiary butyl, Ethyl, n-propyl; Aldehydes - Aliphatic Aldehydes $-\text{CH}_2-\text{CHO}$, Aromatic Aldehydes $\text{C}_6\text{H}_5-\text{CHO}$; Ketones - Aromatic Ketones $-\text{C}_6\text{H}_5-\text{CO}-\text{C}$; Amines (cont) - $\text{C}_6\text{H}_5-\text{NH-R}$, Hydrochloride $\text{C-NH}_3^+\text{Cl}$, Secondary amines - $\text{CH}_2-\text{NH}-\text{CH}_2$, CH-NH-CH , Hydrochloride $\text{C-NH}_3^+\text{Cl}$; Amines - Primary amines $\text{C}_6\text{H}_5-\text{NH}_2$, $>\text{CH-NH}_2$; Aromatic - Monosubstituted Benzene C_6H_5- , Vicinal trisubstituted Benzene C_6H_3- ; Amides $-\text{CO-NH}_2$.

Keywords: Royal Velvet, Iris flower isoflavones, Meteorite minerals, Black Iris Infusion technology, FTIR Spectra

INTRODUCTION

Oriflame Royal Velvet Cream contains a powerful fusion of Iris flower isoflavones and precious meteorite minerals. This modern miracle reinforces the skin's resilience and restores bounce. Iris Isoflavones extract is derived from the majestic Iris flower and is a proven anti-oxidant, with exceptional anti-ageing properties to help revitalise and drastically improve skin firmness. Black Iris Infusion technology stimulates skin firming matrix and hence skin looks firm and smooth.



Figure 1: Majestic Iris flower

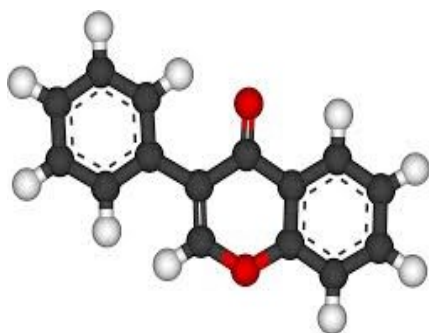


Figure 2: Isoflavones

Among the advances included within this product family Royal Velvet day cream with SPF 15, so we can also protect our skin against UV rays and Royal Velvet Radiance Powder Scrub, a luxurious skin polisher with micro-fine exfoliating particles and Black Iris Infusion which refines our skin to reveal its youthful radiance.

This review attempts to guide the reader between the various Oriflames Royal Velvet skin care products and their applications, with a particular focus on Royal Velvet Firming Day Cream SPF 15. Paper also deals with FTIR spectra of Royal Velvet Firming Day Cream SPF 15. This research, along with better regulation and reporting, will enable consumers to choose products with confidence. This in turn will allow companies to benefit from these novel technologies in the long term while retaining customer confidence.

The luxurious Royal Velvet collection offers a rich and sensual formula infused with iris flower to firm, strengthen and intensely hydrate our skin. Its Key Ingredients include Black Iris Infusion which contains Iris Isoflavones (Iris Florentina Extract) from the iris flower to improve the appearance of fine lines and wrinkles and Meteorite Minerals (Meteorite Powder) to improve the skin's firmness and facial contours.

1. Royal Velvet Firming Day Cream SPF15

Firms and strengthens the skin for women 40+. Offering an intensely hydrating formula enriched with the unique Black Iris Infusion, leaving our skin feeling softer, firmer and visibly younger. Visibly reduces the appearance of fine lines and wrinkles. It helps firm the skin and improves facial contours; it is intensely hydrating formula. It improves skin's bounce and elasticity. SPF 15 protects our skin from sun damage and premature ageing. Other Ingredients are Aqua, Ethylhexyl Methoxycinnamate, Glycerin, Octocrylene, Butylene Glycol, Cyclopentasiloxane, Stearyl Dimethicone, Steareth-2, Aluminum Starch Octenylsuccinate, Ethylhexyl Salicylate, Steareth-21, PPG-3 Benzyl Ether Myristate, Dicaprylyl Carbonate, Cyclohexasiloxane, Butyl Methoxydibenzoylmethane, Octadecene, Sodium Polyacrylate, Caprylyl Glycol, Parfum, Imidazolidinyl Urea, Methylparaben, Cetyl Alcohol, Stearyl Alcohol, Tocopheryl Acetate, Propylparaben, Pisum Sativum Extract, Disodium EDTA, Xanthan Gum, Iris Florentina Extract, Sodium Citrate, Potassium Sorbate, Sodium Hyaluronate, Chlorphenesin, BHT, Phenoxyethanol, Copper Aspartate, Magnesium Aspartate, Manganese Aspartate, Zinc Aspartate, Meteorite Powder, Pentaerythrityl Tetra-Di-T-Butyl Hydroxyhydro-cinnamate, Ethylparaben, Butylparaben [1]

2. Royal Velvet Ultra Firming Capsules

Light yet deep-nourishing blend of 5 precious oils and Black Iris Infusion leaves our skin immediately smoothed and velvet soft, with fine lines and wrinkles visibly reduced. It is to be followed with Royal Velvet Day or Night Cream. Its ingredients are Cyclopentasiloxane, Dimethiconol, Silica Silylate, Carthamus Tinctorius Seed Oil, Persea Gratissima Oil, Prunus Persica Kernel Oil, Ribes Nigrum Seed Oil, Sesamum Indicum Seed Oil, Limnanthes Alba Seed Oil, Tocopheryl Acetate, Iris Florentina Extract, Parfum, Meteorite Powder, Tocopherol [2]

3. Royal Velvet Creamy Cleansing Milk

Removes impurities and helps restore the skin's radiance. Enriched with Black Iris Infusion to keep mature skin firm and youthful without over drying. Cleanses and nourishes; specially formulated light texture; Removes make-up and impurities; Intensely hydrating formula. Other ingredients are Aqua, Butylene Glycol, Ethylhexyl Palmitate, Caprylic/Capric Triglyceride, Glycerin, Glyceryl Stearate, PEG-100 Stearate, Cetyl Alcohol, Stearyl Alcohol, Phenoxyethanol, Imidazolidinyl Urea, Methylparaben, Carbomer, Parfum, Xanthan Gum, Sodium Hydroxide, Iris Florentina Extract, Copper Aspartate, Magnesium Aspartate, Manganese Aspartate, Zinc Aspartate, Meteorite Powder, Ethylparaben, Propylparaben, Butylparaben [3]

4. Royal Velvet Repairing Night Cream

Firms and nourishes the skin for women 40+. An intensely hydrating formula enriched with the unique Black Iris Infusion to improve the skin's firmness while at rest. Reduces the appearance of fine lines and wrinkles; Firms skin by reducing collagen and elastin breakdown; Replenishes skin's hydration overnight; Improving skin's bounce and elasticity. Other ingredients are Aqua, Glycerin, Butylene Glycol, Caprylic/Capric Triglyceride, Cyclopentasiloxane, Isononyl Isononanoate, Myristyl Myristate, Cyclohexasiloxane, Glyceryl Stearate, PEG-100 Stearate, Ricinus Communis Seed Oil, Distarch Phosphate, Sodium Polyacrylate, Cera Alba, Cetyl Alcohol, Stearyl Alcohol, Parfum, Imidazolidinyl Urea, Caprylyl Glycol, Methylparaben, Propylparaben, Pisum Sativum Extract, Disodium EDTA, Xanthan Gum, Hydrogenated Castor Oil, Iris Florentina Extract, Copernicia Cerifera Cera, Sodium Citrate, Potassium Sorbate, Sodium Hyaluronate, Chlorphenesin, Phenoxyethanol, Copper Aspartate, Magnesium Aspartate, Manganese Aspartate, Zinc Aspartate, Meteorite Powder, Ethylparaben, Sodium Chloride, Butylparaben, CI 17200, CI 42090 [4]

5. Royal Velvet Soothing Toner

Removes any last traces of make-up and impurities and prepares the skin for the firming and resilient properties of the Black Iris Infusion. Leaves the skin cleansed, refreshed and radiant; Removes make up and impurities; Soothes the skin; Has a fresh and light texture. Other Ingredients are Aqua, Butylene Glycol, PEG-7 Glyceryl Cocoate, Glycerin, Oleth-20, Phenoxyethanol, Imidazolidinyl Urea, Caprylyl Glycol,

Parfum, Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Methylparaben, Xanthan Gum, Propylparaben, Ethylparaben, Sodium Hydroxide, Iris Florentina Extract, Copper Aspartate, Magnesium Aspartate, Manganese Aspartate, Zinc Aspartate, Meteorite Powder, Sodium Chloride, Butylparaben, CI 17200, CI 42090 [5]

6. Royal Velvet Firming Eye Contour Cream

It Improves the appearance of under eye circles for women 40+. Enriched with Black Iris Infusion to leave eyes feeling smoother and firmer and looking visibly younger. Helps Tightens and re-contours skin around the eye; Reduces the appearance of fine lines and wrinkles; Improves the appearance of dark circles and puffiness; Eyes feel smoother and firmer. Other Ingredients are Aqua, Glycerin, Butylene Glycol, Isohexadecane, Cyclopentasiloxane, Isononyl Isononanoate, Pentaerythrityl Distearate, Cyclohexasiloxane, Butyrospermum Parkii Butter, Glyceryl Stearate, PEG-100 Stearate, Sodium Polyacrylate, Caffeine, Cera Alba, Cetyl Alcohol, Nylon-12, Stearyl Alcohol, Methylparaben, Imidazolidinyl Urea, Propylparaben, Euphrasia Officinalis Extract, Propylene Glycol, Disodium EDTA, Xanthan Gum, Hydrolyzed Wheat Protein, Mica, Iris Florentina Extract, Silica, Pisum Sativum Extract, Sodium Chloride, Phenoxyethanol, Meteorite Powder, Sodium Hyaluronate, Sodium Citrate, Sodium Benzoate, Copper Aspartate, Magnesium Aspartate, Manganese Aspartate, Zinc Aspartate, EDTA, Potassium Sorbate, Chlorphenesin, Sorbic Acid, Ethylparaben, Butylparaben, CI 77891 [6]

7. Royal Velvet Radiance Powder Scrub

Its ingredients are Microcrystalline Cellulose, Sodium Cocoyl Isethionate, Sorbitol, Aluminum Starch Octenylsuccinate, Salicylic Acid, Parfum, Maris Sal, Carthamus Tinctorius Seed Oil, Iris Florentina Extract, Meteorite Powder, Silica [7]

METHODOLOGY

FTIR Spectrophotometer - Perkin Elmer - Spectrum RX-IFTIR










FTIR can be routinely used to identify the functional groups and identification/quality control of raw material/finished products. Spectrum RX-I offers fast throughput and rapid access to reliable and dependable IR results. High signal to noise ratio makes FTIR more

useful for difficult samples. It has resolution of 1 cm^{-1} and scan range of 4000 cm^{-1} to 250 cm^{-1} . In the normal mode around 10 mg sample is required in the form of fine powder. The sample can be analyzed in the form of liquid, solid and thin films also.

FTIR spectra of Royal Velvet Firming Day Cream SPF 15 is obtained at room temperature by using an FTIR Spectrophotometer - Perkin Elmer - Spectrum RX-IFTIR. The spectra is collected in a range from 650 to 4000 cm^{-1} .

RESULTS AND DISCUSSION

Figure 3 shows FTIR Spectra of Royal Velvet Firming Day Cream SPF 15. Interpretation of FTIR Spectra of Royal Velvet Firming Day Cream SPF 15 can be done as follows:

S.N .	Spectral Region Wave number cm^{-1}	Bond causing absorption	Pattern and Intensity of Band
1	3368.64	Alcohols - Secondary CH-OH	Broad and Strong Intensity
2	2958.87	Alkane - Iso - propyl, Tertiary butyl	Sharp and Moderate Intensity
3	2920.81	Alkane - Iso - propyl, Tertiary butyl	Sharp and Moderate Intensity
4	2852.87	Alkane - Ethyl, n-propyl, Iso - propyl, Tertiary butyl	Sharp and Moderate Intensity
5	2146.97	Aldehydes - Aliphatic Aldehydes $-\text{CH}_2-\text{CHO}$, Aromatic Aldehydes  -CHO	Broad and Low Intensity
6	1713.89	-	Broad and Moderate Intensity
7	1636.83	-	Broad and Moderate Intensity
8	1605.85	Aromatic - Monosubstituted Benzene  , Amines (Cont) - Hydrochloride $\text{C}-\text{NH}_3^+\text{Cl}^-$	Sharp and Moderate Intensity
9	1513.91	Amines (cont) - Secondary amines $\text{CH}_2-\text{NH}-\text{CH}_2$, $\text{CH}-\text{NH}-\text{CH}$,  -NH-R, Hydrochloride $\text{C}-\text{NH}_3^+\text{Cl}^-$	Sharp and Low Intensity
10	1464.91	-	Broad and Low Intensity
11	1422.95	-	Broad and Low Intensity
12	1379.96	-	Broad and Low Intensity
13	1302.93	-	Broad and Low Intensity
14	1287.94	-	Broad and Low Intensity
15	1258.78	Alkane - tertiary butyl, Aldehydes - Aromatic Aldehydes  , Ketones - Aromatic Ketones -  , Amines (cont) -  -NH-R	Sharp and Moderate Intensity
16	1167.88	Alcohols - Secondary CH-OH, Amides $-\text{CO}-\text{NH}_2$	Broad and Moderate Intensity
17	1073.76	-	Broad and Moderate Intensity
18	906.98	-	Broad and Low Intensity
19	850.97	-	Broad and Low Intensity
20	806.80	Alkane - Ethyl, Amines $>\text{CH}-\text{NH}_2$, Amines - Primary amines 	Sharp and Moderate Intensity
21	762.93	-	Broad and Low Intensity
22	697.88	Aromatic - Vicinal trisubstituted Benzene  Amines - Primary amines 	Sharp and Moderate Intensity

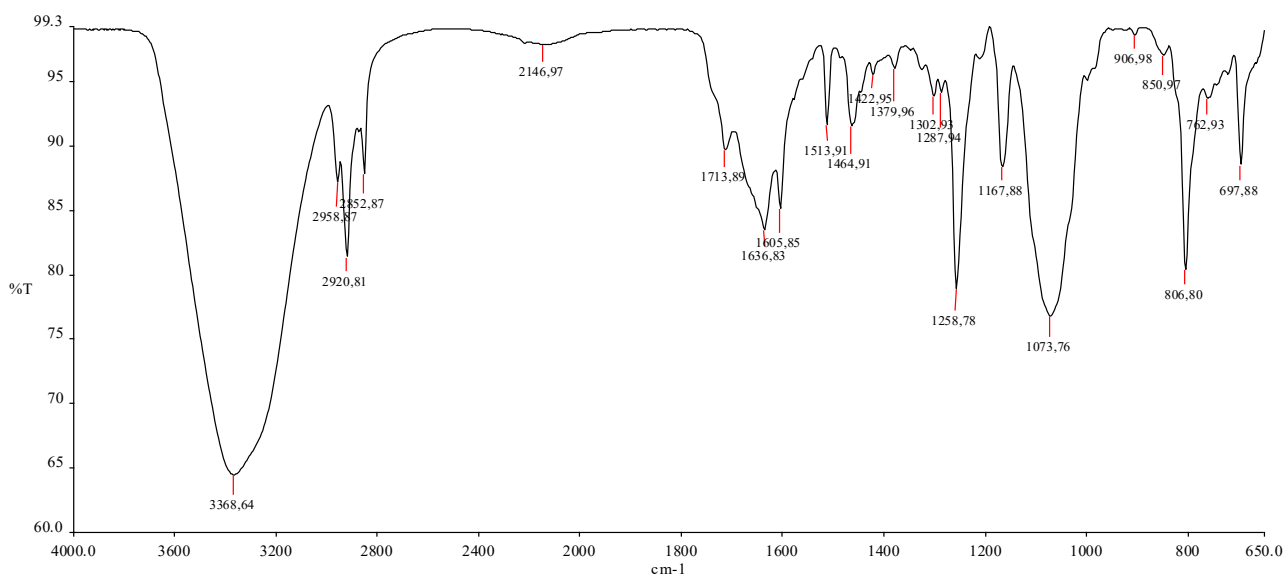


Figure 3: FTIR Spectra of Royal Velvet Firming Day Cream SPF 15

Interpretation of FTIR Spectra of Royal Velvet Firming Day Cream SPF 15 shows presence of various functional groups such as Alcohols - Secondary CH-OH; Alkane - Iso - propyl, Tertiary butyl, Ethyl, n-propyl; Aldehydes - Aliphatic Aldehydes -CH₂-CHO, Aromatic Aldehydes c1ccccc1C=O; Ketones - Aromatic Ketones - c1ccccc1C(=O)C; Amines (cont) - c1ccccc1N, Hydrochloride C[NH3+]Cl, Secondary amines - CH₂-NH-CH₂, CH-NH-CH, Hydrochloride C[NH3+]Cl; Amines - Primary amines c1ccccc1N, >CH-NH₂; Aromatic - Monosubstituted Benzene c1ccccc1, Vicinal trisubstituted Benzene c1ccccc1C(C)C; Amides -CO-NH₂.

NH₂; Aromatic - Monosubstituted Benzene c1ccccc1, Vicinal trisubstituted Benzene c1ccccc1C(C)C; Amides -CO-NH₂.

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CONCLUSION

FTIR can be routinely used to identify the functional groups and identification/quality control of raw material/finished products. Interpretation of FTIR Spectra of Royal Velvet Firming Day Cream SPF 15 shows presence of various functional groups such as Alcohols - Secondary CH-OH; Alkane - Iso - propyl, Tertiary butyl, Ethyl, n-propyl; Aldehydes - Aliphatic Aldehydes -CH₂-CHO, Aromatic Aldehydes c1ccccc1C=O; Ketones - Aromatic Ketones - c1ccccc1C(=O)C; Amines (cont) - c1ccccc1N, Hydrochloride C[NH3+]Cl, Secondary amines - CH₂-NH-CH₂, CH-NH-CH, Hydrochloride C[NH3+]Cl; Amines - Primary amines c1ccccc1N, >CH-

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