# Formulation andevaluationofherbalfacewash

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# Abstract

Theoverallstudyfocusesonthe developmentandassessment ofanaloe verafacewashemployingavarietyofingredients, including aloe vera, rosewater, rawhoney,lavender, peppermint, vitamin Ecapsules, glycerine, andsoapbase. Use of analoe verafacecleanserafter everywashhasmanyadvantages. Aloe veraface washismadewithelements thatarebeneficialtoour skinandarealso highlyhelpful forourskin. Byusing severaltests, including evolution andothermethods, thefull investigationdemonstrated thataloeverafacewashhasnonegativeeffectsandis highly beneficialforour skin's healthy radiance.

# Keyword

Formulationmethod; Aloe vera; Ingredientsof aloe vera facewash

# Introduction

Facewashreferstoproductsthatcleanthefacewithoutdryingit out."Cleanser" isanother name forfacewash. Facewashhasbeen determinedto besuitableforallskintypes. Facewash isparticularly effective inremovingdirt, oil, andmoisturefromdryskin. Facewashesandcleansersarebothusedtoremove grime, oil, andpollutionfrom your face. Acleanserremovesexcessoil, makeup, and filth fromtheskin. Thesearecontaminants thatareoilsoluble. Theycanalso be removedwithafacewash, though thismaynotbecompletelysuccessful. Ordinary soapscandehydrate facialskin, whichisquitefragile. Afacewash isagentlecleaner thatgetsthejobdone. Withoutcausingirritationtotheskin Asaresult, theskinseems youthfulandactive. Theobjectiveofafacewashcouldbetoprovidecleansing,

anti-wrinkle, anti-acne, moisturising, andskinfairness. Skinwhitening products are

thought toaffect thesynthesisandmetabolismofmelaninintheskinbysuppressing melaninproductioninmelanocytesandtherebyreducingtheamountof melanin present. Aloevera, rosewater, rawhoney, peppermint oil, lavender essentialoil, soapbase, andglycerol areexamplesof agentsthat suppress melanin synthesis.

# Definition offacewash

Acleanserisafacialcaresolution thatremovesmakeup, deadskin cells, oil, grime, andotherimpurities fromtheface'sskin. Thisaidsinporeunclogging andacneprevention. In additiontotoner andmoisturiser, acleanser canbeusedas part ofa skincareroutine.

# Advantages offacewash

\*Itaidsintheremovalofdeadskincells, a **l**owingnewskincellstotaketheirplace.

\*Itkeepsskinlooking youngandhealthy.

\*Itgivesthe skinahealthy glow.

\*Byremovingdeadskince **l**s, youmightexpectyourskintoagemoreslowly.

# Propertiesoffacewash

# Exfoliationstimulatesskinregeneration andrenewalbyincreasingblood circulation.

#itmustbebothstableandattractive. #whenappliedto theskin, it shouldsoften.

#itshouldbeabletospreadwithoutdragging.

#afterusage, athinemollient layershouldremainontheskin.

#Ratherthan absorption, itsphysicalactionshouldbethatof skinflushingandpore. #the creamresidueshouldnotbecomethick oncethewaterhasevaporated.

#itshould not feeloilyorgreasywhile beingapplied.

# Usesofface-wash

1. Everyday, removeanytraces ofmakeup
2. Assistinkeepingthepores free.
3. Itstimulatestheproductionandregenerationofskincells.
4. Bathingandregenerationkeepskin cleanand lustrous.
5. forskinpurification.
6. Anti-aging

# Ingredient

1. Aloeveraextract
2. Coffepowder
3. Ethanolicextracts of Turmeric
4. Methylparaben
5. Glycerin
6. Sodiumlauryl sulphate
7. Distilledwater
8. Roseoil
9. Soapbase

# Ingredients Information

## Aloe Vera

Scientificname: Aloe Vera



Family: Asphodelaceae. Kingdom: Plantae

Botanical name: Aloebarbadensismiller

# Usingaloe Veraon the facehas benefitsbecause:

Its anti-inflammatory effects helpto relieve pain, swelling, andsorenessin wounds andinjuries, anditpromotes collagenformationandrelease.

* It canshortenthetime it takesfor

Trusted Sourcewounds toheal andreducescarring.

* Itshortensthetimeittakesforfirst- andsecond-degreeburnstorecover.
* Itworks totreat bacterialandfungaldiseasestrusted source.
* Ithasanantioxidant impactthatcanaidintherepairof UV damageandtheslowing down oftheskin'sageingprocess.
* Itguardstheskinagainstthe harmful effects ofradiationtherapy.
* Itcontains 98 percentwater, whichmoisturises, soothes, andhydratestheskin.
* Itmakestheskinmoreflexibleandsupple, rather thanstiff andleathery.
* It relievesrashesandsunburns bycoolingthem down.

Contents aloevera: Vitamins, enzymes, minerals, carbohydrates, lignin,

saponins, salicylicacids, andaminoacidsareamongthe 75 potentially active ingredients foundinaloe vera. Vitamins: It contains antioxidantvitamins A (beta-carotene), C, and E. Vitamin B12, folicacid, andcholine arealsopresent.

# Benefits of Rosewater for Your Face:

* Itbalances skin’snaturaloils: Rose water isknownfor itsability toclarifyand balanceyour skin's natural oils, resultinginarenewed, revitalisedappearance.
* Itcanhelpreduce theappearanceoftemporaryredness: Ifyouhavesome rednessonyourskin, rosewater canactually help toreducethe appearance ofit-as we **l** asanyassociateddiscomfort. It'sanexcellentwaytorefreshandsootheyour skin.
* Itnaturallyhydrates: Foryouthful, glowingskin, moistureis essential, androse waterisanaturalhydrator. Itgivesyour skinaninstant boostandreplenishes moisture.
* Ithasantioxidant propertiesthatnourishandprotecttheskin: Rosewaterhasbeen usedforavarietyofpurposessincethe 7thcenturyandishighinantioxidants, which provideyourskin withthenutrients it requires!
* Itcanhelp preventfinelinesandwrinkles andreducetheappearance of thosethat alreadyexist: Rosewateriswell-knownfor itsanti-agingproperties. Itcanfi **l** fine wrinklestemporarilyandpossibly prevent newonesfromforming.
* Itcanhelptounclogpores andcreateasmoother looking appearance: Whenyour poresbecomecloggedwithdailydebrisand toxins, rosewatercanhelp to decongest themandclear impuritiesforafresh, bright face.

It reducestheappearanceoflargepores: Speakingoflargepores, rosewater can actually help toreducetheir appearance. Ithascleaning, clarifying, andbalancing qualities.

* Itcantemporarilytighten skin: Rose watercantemporarilytightenthelookof your skin, givingyouafirm, plumpappearance, thankstoitstoningproperties. Smoothas silk!
* Ithelpstoremoveimpuritiesandprepareyourskin forsuccess: Rosewatercan helptoremoveimpurities and prepare yourskinforsuccess. Itcleanses andhydrates theskin, makingitagreatadditiontoanynaturalskin careroutine.

Contents ofrosewater: Rosewaterishighinvitamins A, C, E, and B, aswe **l** asanti-inflammatory properties.


# Benefits of Raw Honeyfor Skinand Face:

* Deeply hydratestheskin
* Itcleans the pores.
* Lightens Scars
* Gentle Exfoliator
* Helps withsunburn
* Preventsacne andpimples
* Addsa Natural Glow
* Reverses Age
* Hydrates the Skin
* Assistsin Wrinkle Reduction
* Brightensthe Skin Complexion

Containsofrawhoney ; Honeyisprimarily sugar, withsomeaminoacids, vitamins, minerals, iron, zinc, andantioxidantsthRawn inforgoodmeasure. Honeyis utilisedasananti-inflammatory, antioxidant, andantibacterialagentinadditionto beinganaturalsweetener.



# Lavender Oil(Goodsmellagentforfacewash;

Benefitsof Lavender Oilfor Skin: Aromatherapists commonlyuselavender oil tocalmandsoothethepsyche. Similarly, it has thesameeffect onyourskin. Check out theselavenderoilskinbenefits toseehowyoumayusethisessentialoilto improvethehealthofyour skin.

* Acne-FightingLavender Oil: Oneofthe mostbeneficialproperties oflavender oil forskinis thatitaidsin thetreatmentofacneandthehealingof outbreaks. Itkillsacne- causing germs, unclogs pores, anddecreasesinflammation becausetoits antibacterialqualities.
* It Is AHero Who Reverses Aging: Lavender oil forskinishighinantioxidantsand helpscombat freeradicaldamage. Italsoactsasaprotectivebarrier, preventingfree radicalsfrominflictingfurtherharm. Thisaddressesthe obviousindications.
* It Treats Eczema: Lavender oil forskinisanexcellentantifungalagent, particularlyif yousufferfromeczemaorpsoriasis. Afewdropsmixedwithcarrier oilcan help moisturiseskinwhile alsoaddressingredness, irritation, andinfection.
* Lavender Oil Is Also An Anti-Inflammatory Agent: Lavenderoilhas

anti-inflammatory properties, whichisoneofitsmanyadvantages. This indicates thatitcancalmirritatedandinflammatoryskin. Theoil'sbeta-caryophylleneisa naturalanti-inflammatory. Thisalso worksonminor sunburns!

* It Heals Wounds: Lavender oil forskinisalsoknownforitstherapeutichealing powers!It acceleratesthehealingofwoundssuchasburns, cuts, andscrapes.
* It Even Keeps Insects at Bay: Campingtrip? Or perhapsyourequiresomethingto keepthe mosquitoesatbayduringthemonsoonseason.

Containsof Lavenderoil: Essential oilofvitamin Cimprovesinflammatory

skinsymptomsanddiseases.

# Peppermint Oil (soothing agentforfacewash;

## Benefitsof usingpeppermint oil for skin:

* It revitalisestheskin: Addingpeppermintessentialoiltoanyskincarerecipehelps yourskinfeel renewed, invigorated, andalive.
* It lowerspimples: Peppermint essentialoil's antimicrobialandantiseptic propertiesaidinthereductionof pimples and lesionssuchaspapules, pustules, nodules, cysts, andactivecomedones.
* Itcoolsthe skinandscalp: Peppermintessentialoilisusedinskincareproductsto createacoolingfeeling anddecreasetheeffects ofsunburnorprolongedsun exposure.
* It increasesbloodcirculation andskintone byusingoilsorserums packedwith organicpeppermintessentialoilforface andbodyonaregular basis.
* Iteliminates germsandodour: Peppermint oil'santibacterialcapabilitieskeepskin andscalpclearofcongestionandmakethem sme **l** freshandmintybyeliminating bacteriaandodour.
* It reducessebum: Peppermintoilinface masks and cleansershelpsoily, combination, andacne-prone skinregulatesebum productionanddistribution.
* It is astringent innature: Peppermint oil isnatura **l**yastringent. It improvesthe appearanceof poresbycontractingskin cells. It also prevents cloggingor congestionof thepores.
* It reducesindigestion: relieves indigestion Mentholinpeppermintoilreduces acidity, soothesthestomach, andaidsdigestion, resultingin a healthier gutand clearerskin.

Content of peppermint oil: Menthoneandmentholarethetwoprimarychemical components ofpeppermintoil.

## Vitamin ECapsule ;

Vitamin Ebenefits for Skin:

* Vitamin Eisa Moisturizing Agent.
* Vitamin EHelpsto Reversethe Signs of Skin Aging.
* Vitamin Ehelps tohealsunburns.
* Vitamin Ehelps to lighten darkspots.
* Vitamin Eactsas acleanser.
* Vitamin Ehelps tohealdryfingernails.
* Vitamin E: Reduces theappearanceofstretchmarks.
* Vitamin Ehelps torelieve coldsores

Content of Vitamin E: Naturalvitamin Eis usually labe **l**edasd-alphatocopherol, d-alphatocopherolacetate, or d-alphatocopherolsuccinate, however mixed tocopherolscanalsobefound(mixedtocopherols, containnotonly d-alpha tocopherolbut naturalmixturesofbeta, gamma, and deltatocopherols).

# Glycerine

## Glycerine Benefitsfor Your Skin:

* Hydratethestratumcorneumoftheskin.
* Improvetheskinbarrierfunction.
* Provideanti-irritant protectionfortheskin.
* Increasethespeedwithwhichwoundsheal.
* Eliminate dryskin. 6. Maybebeneficialforpsoriasis.

Content of glycerine: Glycerine isanaturalchemicalgeneratedfrom vegetable oils oranimalfats. It'sasweet-tasting liquid that'stransparent, colourless, and odourless.

# Soap Base

Basematerial ofsoapbase:

* Foamingagent
* Cleansingagent
* Expedient

## The basicingredientsof soapbase:

* Vegetableoil.
* 100percent pure lye.
* Distilledwater.
* Essentialor skin-safe fragrance oils(optional)
* Colorants(optional)

# Evolution Test;

## Aloe Vera

PH 1.0 ggelwasaccuratelyweighedanddispersedin 100 mlpurifiedwater. ThepH of thedispersionwasmeasured usingdigitalpH meter, which 0 and9.0. The measurementsofpH weredoneintriplicate andaveragevalues werecalculated.

## Rose water

EvaluaterosewaterbySteamdistillationandobtainclear solutioninbeaker. PHof rosewater 5.5

## RawHoney

fehling´stest: 2mlofhoney istakeninatesttubeand1mleachof Fehling´s Aand Fehling´s Bareaddedtoitandboiled, Redprecipitateindicatesthepresence of reducingsugar. Viscosityof honey10000 cps. PHof Honeyrangesbetween 3.5 to 5.5

# Lavenderessentialoil

Testsolution: A2.0%w/vsolutionofthe oilunder examination ofethanol(95%)

Standardsolution: Asolutioncontaining2.0 % w/vsolution oflinalylacetate RSin ethanol(95%). Chromatographicsystem: acapillarycolumn 30m X 0.25mm coated withmethyl 5%phenylpolysilox

Temperature: column 50⁰ for 1minuteincrease from 50⁰ to 220⁰ atarateof 10⁰ per minuteandmaintenanceatthis temperaturefor 13 minute , inlet portat 250⁰ anddetectorat 280⁰ , detectionbyflameionizationdetector, flowrate 1 ml per minuteusingnitrogenasagas carrier , injectionvolume; 1.0μl, split ratio; 1:25

# Peppermintoil

Testsolution: A2.0%w/vsolutionofthe oilunderexaminationofethanol(95%)

Standardsolution: Asolution containing2.0%w/v solutionofmethone RSin ethanol(95%) Chromatographicsystem: a capillarycolumn 30mX0.25mmcoatedwith methyl5% phenylpolysiloxane, maintenanceat thistemperature for13minute, inlet portat250⁰ and

detector at280⁰ , detection by flame ionizationdetector, flowrate 1ml perminute using

nitrogenasa gascarrier , injectionvolume ; 1.0μl, split ratio; 1:25

# Vitamin E

PHtest takeadropofvitamin Eonmoistblue litmuspaper. It turnsred. Itshows vitamin Ebasicinnature.

# Glycerine

Dustan´stest:When phenolphthalein isaddedtodilutecoldsolution of borax, a pinkcolor

isproduced. When glycerolismixed in itin coldthe colourdisappearsbutonheatingcolor reappears. It isa characteristic ofGlycerol. ThistestiscalledDustan`stest.

# Soap Base

PH:- 1% soapsolution, meaning1%of thesolution issoapand 99%ofthesolution is distilledwater. Usingamini-whisk, Istirredthesolutionuntilthesoapdissolved.Add fewdropsphenolphthaleinindicatorinit. Solutionturnspink. Itmeanssoapisbasicin nature.

# Tableingredients quantity

|  |  |  |
| --- | --- | --- |
| SR.NO. | Ingredient | Quantity |
| 1. | Aloe vera gel | 3 tablespoon |
| 2. | Rosewater | 1\3 cup |
| 3. | Rawhoney | 1 tablespoon |
| 4. | Lavenderoil | 10drops |
| 5. | Peppermintoil | 10drops |
| 6. | VitaminEcapsules | 5 drops |
| 7. | Glycerine | 1 tablespoon |
| 8. | Soapbase | 1/3 cup |
| 9. | Aloe vera gel | 3 tablespoon |

Formulationofmethod

Liquidmixingtypedividedintothefollowingtwosubgroups:

1. Mixingofliquidand liquids
	1. Mixingoftwomiscibleliquidsand
	2. Mixingoftwoimmiscibleliquids
2. Mixingofliquidsand solids
	1. Mixingofliquidsand soluble solids
	2. Mixingofliquidsandinsolublesolids

Mixingof twomiscible liquids(Homogeneous Mixtureseg; Solution):

This typeof mixingeasilytakesplacethroughdiffusion.

Sometimesturbulence occurs intheliquidof mixture.

Mixingof Two Immiscible Liquid(Heterogeneous Mixture eg: Emulsion): Inthistypeofmixingtransferof dissolvedmaterialfrom onefluidto anotherisaffected eg: emulsion Astable emulsion canbe

obtainedbycarryingoutmixingcontinuously andefficiencyotherwise.

Mixingof liquidand Soluble Solid: (Homogenous Mixture

egSuspension): Inthistype ofmixingsoluble solidaresolubilised inanappropriatesolventthroughstirring. Asolutionisformedby solubilisingthesolublesolidvia physicalalteration.

Mixingof liquidandinsolublesolids(Heterogeneous Mixture

eg: Suspension): Bymixinginsolublesolidwithaliquidanunstable suspensionisobtainedwhose ingredientseparateout from standing forsometime, Mortar andpestle are used for makingsuspensionona smallscale.

# Formulation

## 1st procedure:

Mixaloe Veraextractthoroughlywithamixer grind. 1 tablespoonofaloe Vera(about 3 grams) inamixingdish and 1/2 cupoffresh, coldrosewaterinaseparatebasin, mix 1/2 cupofsoapbase tomakeitsmoothandcreamyandputthealoe Verageland rosewater mixtureinitandstiritslowly. Mixintherawhoney, peppermint oil, and vitamin Ecapsule thoroughly. Glycerineisaddedtocreateincreasethequantityand consistencyFillthebottlewiththefacewashandstoreitsomewhere coldanddry.

Result : Aloe Verafacecleanser hasahighlyliquidconsistency.

## 2nd procedure:

Freshand cleanaloe Veraleaves yield aloe Veragel. Inamixinggrinder, combinethe gel.1 table spoonaloe Veragel(about 3 grams) inamixingbowland 12 cupoffresh, coldrosewater 1tablespoonwalnuts, crushedinaseparatebasin, mix 1/2 cupof soapbasetomakeit smoothand creamy. Andput thealoe Vera gelandrosewater mixture in it and stir itslowly. Mixintherawhoney, peppermint oil, andvitamin E capsule thoroughly. Glycerineis addedtocreateincreasethequantityand consistencyFillthebottlewiththefacewashandstoreitsomewhere coldanddry.

Result: Becausetheconsistencyofaloe Verafacewashis veryharsh, removethe ingredients fromthefacewash.

## 3rdProcedure:

Freshand cleanaloeveraleavesyieldaloeveragel. Inamixinggrinder, combinethe gel. 1 table spoonaloe vera gel(about 3 grams) inamixingbowland 1/2 cupoffresh, coldrosewater. Grindthesoapbase, thenaddthefacewashandputthealoevera gelandrosewatermixtureinit andstirit slowly. Mixintherawhoney, peppermintoil, andvitamin Ecapsulethoroughly. Toaddvolumeandconsistency, addglycerine. Fill thebottlewiththefacewashandstoreit somewhere coldanddry.

Result : Consistencyof facewashisinsufficient.

## 4th Procedure:

Fresh andcleanaloeveraleaves yield aloevera gel.

Inamixinggrinder, combinethegel. 1 tablespoonaloeveragel(about 3 grams) inamixingbowland 1/2 cupoffresh, coldrosewater.

Makeasmooth 1/2 cupofsoapbaseinaseparatebasin. Bywhiskingit, it becomescreamy, andslowlypours inthealoeveragelandrosewater

mixture. Combiningthemmixin theraw honeyand vitamin Etabletthoroughly. To

addvolume andconsistency, addglycerine. Fill thebottlewiththefacewashandset it aside, acold, drylocation.

Result : Facewashis not givingenoughsensation of Coolingto skin; henceweadd peppermint oil innexttrial.

## 5th Procedure:

Fresh andcleanaloeveraleaves yield aloevera gel. Inamixinggrinder, combinethe gel 3 tablespoonsaloevera gel(about 3 grams) inamixingbowlanda 1/3 of acupof fresh, chi **l**edrosewaterinaseparatebowl, whisk 1/3 cupof soapbasetomake it smoothandcreamy, andputthe aloeveragelandrosewatermixtureinitandstirit slowly. Add 1tablespoonof rawhoney, 10 drops ofpeppermintoil, 10 dropslavender oiland vitamin E 2 capsule, properlymixed. Toaddvolume andconsistencyadd glycerine. Fill thebottlewiththefacewashandstoreit somewhere cold anddryplace.

Result : completed

# Evolution Test for Face Wash In Vitro Evolution

## Rheological characteristic:

wewere studiedfor somephysicalproperties colour, clogging, viscositychangeand sensationtest.

## Determination ofpH:

ThepH offormulationswas determined usingdigitalpH meter. One gramofface washwasdissolvedin 100 mlof demineralisedandstoredfortwohours. The measurementsofpH ofeachformulationweredone intriplicate. Instrument was calibratedbeforeusewithstandardbuffer solutionsatpH 4.

## Determination of Viscosity:

100 gmofeachofformulation wasweighedand transferredtobeaker. Thehelp of Brookfieldviscometer (LV viscometer), spindleno3 at 10 rpmfor 5 min. Before measurementdeclaration offacewash wasdoneandthe facewashwasfilled in appropriateviscosityof formulationsweredeterminedwiththe Widemouth container.

Samplesofthefacewashwereallowedtosettle over 30 minat theassay temperature(25 ±’C) beforethemeasurements. Viscosityofformulation was determinedusing the

formula. Viscosity(CP) =Dial Readingx Factor.

## Spread ability:

Spreadabilitydeterminationofformulations wasdeterminedbyan apparatus suggestedbyMortimer etal. whichwasfabricated in laboratory& used forstudy. The apparatusconsistsofawoodenblockwithafixedglass slidewithoneendtiedto weight panrolledonthepulleywhichwas inhorizontal level withfixedslide An excess of whiteningfacewash sample 1.5 gmwasplacedbetweentwoglassslide anda 1000 gm weightwasplacedonslidefor 5 minutestobetweencompressthe sample touniformthickness weight(60gm) wasaddedtothepan. It wascalculatedusingthe formula; S=ml/t Where, s=spreadabilityingm.cm/secm=weighttiedtoupperslide 1= length of glassslidet=timeinseconds Length of glassslide was 11.2 cmand

weight tiedtoupperslidewas(60gm) throughout theexperiment.

## Washability:

Theproductwasappliedonhandandwasobserved underrunningwater.

## Stabilitystudy:

Theinstantwhiteningfacewashwerealso subjectedtothefollowingcondition of temperatureandrelativehumidityduring stabilityagesfit sediment temperature.

# In Vivo Evolution Test

## Skinirritation test:

Theskinirritationwascarriedoutonhumanvolunteers. Forformulated facewash volunteerwere selectedand 1.0 gofformulatedfacewash wasappliedonanareaof twosquareinch tothebackofthehand. Thevolunteers werenotobservedfor

lesionsorirritation.

## Photographicevaluation:

Thiswascarriedout onvolunteer. Whiteningfacewashwasappliedonskin. The photographsweretakenbeforeandafterapplicationof theproduct.

# Conclusion

Peopletodayrequireacurefor theirproblems thatisfreeofadverseeffects. Herbal components madeitpossibletocreatecosmeticswithnosideeffects. Herbalface packsarethoughttobealong-lastingandeffectivetechnique toimproveskin's appearance. Asaresult, thecurrent effort isanexcellentattempttomanufacture an herbalfacepackusingnaturallyavailablesubstances suchasaloe vera, rosewater, rawhoney, peppermintoil, lavenderessentialoil, soapbase, vitamin Eandglycerine. Thedevelopedformulation wassaidtobephysico-chemicallyand microbiologically stable withcharacteristics similar totypicalcosmeceuticalsformulations for cosmetic

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