ALOE VERA

Product Overview Cosmetics

TERRY LABORATORIES
Quality Aloe Vera Extracts & Concentrates

RAHN
Your partner for excellence

Inventory

Introduction

For some cosmetic applications, only the most excellent quality of Aloe Vera Gel is good enough where for other uses a good quality for a good price is more demanding. A typical difference might be a soothing after sun lotion claimed to contain 50 % of Aloe Vera Gel versus a shower gel containing Aloe Vera. The specific claims for the after sun lotion (soothing / 50 % Aloe Vera Gel / leave-on) could lead to use a very good or even excellent quality grade Aloe Vera Gel compared to the shower gel where the presence of good quality might be sufficient.

High-end Aloe Vera Gel quality needs a higher investment of resources (equipment, time, analytics, certification) what results in higher costs. Therefore Terry Labs offers three different quality grades ("good", "very good" and "excellent") which allows you choosing the right quality for your application.

Differences in Aloe Vera Gel grades according manufacturing process and certifications:

	"good quality"	"Very good quality"	"Very good plus quality"	"excellent quality"
Aloe Vera plant	Organic growth	Organic growth	Organic growth	Organic growth
Removal of rind	Mechanical rollers squeeze out the filet, some rind residue might stay on the filet	Mechanical fileting followed by inspection where rind residues are removed by hand	Mechanical fileting followed by inspection where rind residues are removed by hand	Mechanical fileting followed by inspection where rind residues are removed by hand
Manufacturing process	Liquid is concentrated by gentle reverse osmosis and evaporator process	Liquid is concentrated by gentle reverse osmosis and evaporator process	Liquid is concentrated by gentle reverse osmosis and evaporator process	Liquid is concentrated by gentle reverse osmosis
Whole Leaf Marker	Yes	< 5 %	< 5 %	< 5 %
Aloin content	< 0.1 ppm as 1x	< 0.1 ppm as 1x	< 0.1 ppm as 1x	< 0.1 ppm as 1x
Fair trade	X	X	X	X
IASC certified*		X	X	X
Guaranteed min. 10 % Polysaccharides			X	
NaturLock** process				X
Aloe Vera Gel codes:	**"good quality"**	**"Very good quality"**	**"Very good plus quality"**	**"excellent quality"**
Liquid 1x				AG002
Liquid 10x	AG014P			AG014
Pure Powders (200x)	TN001 / TN003	TN001 CR / TN003 CR	TN001 CR plus	

* ISAC certified in full conformity with International Aloe Science Council guidelines

** NaturLock quality: highest quality that is very close to mother nature fresh Aloe Vera Gel regarding purity and polysaccharide distribution.

Aloe Vera Gel

Liquids

Product description	AG002 Aloe Vera Gel	AG003 Aloe Vera Gel	AG011 Aloe Vera Gel	AG011P Aloe Vera Gel
Version	Decolorized	Regular	Regular	Regular
From concentrate	Yes	Yes	Yes	Yes
Concentration	1 x	1 x	10 x	10 x
% Aloe Vera Gel	100	100	100	100
Solid matter content of Aloe Vera Gel (fillet)	Min. 0.5 %	Min. 0.5 %	Min. 4.6 %	Min. 4.6 %
Aloin content as 1 x	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm
Fileted by:	Hand	Hand	Hand	Machine
Preservatives (INCI) Potassium Sorbate Sodium Benzoate Citric Acid to pH 3.5–4.5	 0.10 % 0.05 % adjusted	 0.10 % 0.10 % adjusted	 0.10 % 0.10 % adjusted	 0.20 % 0.10 % adjusted
Certified by I.A.S.C.	Yes	Yes	Yes	No

Aloe Vera Gel

Liquids

Product description	AG014 Aloe Vera Gel	AG014P Aloe Vera Gel	AG045 Aloe Vera Gel	AG046 Aloe Vera Gel
Version	Decolorized	Decolorized	Decolorized	Regular
From concentrate	Yes	Yes	Yes	Yes
Concentration	10 x	10 x	40 x	40 x
% Aloe Vera Gel	100	100	100	100
Solid matter content of Aloe Vera Gel (fillet)	Min. 4.6 %	Min. 4.6 %	Min. 18.4 %	Min. 18.4 %
Aloin content as 1 x	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm
Fileted by:	Hand	Machine	Hand	Hand
Preservatives (INCI) Potassium Sorbate Sodium Benzoate Citric Acid to pH 3.5–4.5	 0.10 % 0.10 % adjusted	 0.20 % 0.10 % adjusted	 0.10 % 0.10 % adjusted	 0.10 % 0.10 % adjusted
Certified by I.A.S.C.	Yes	No	Yes	Yes

Aloe Vera Gel

Organic Powders Spray Dried

Product description	TN001 Aloe Vera Powder	TN001 CR Aloe Vera Powder	TN001 CR plus Aloe Vera Powder
Version	Regular	Regular	Regular
Type of drying	Spray drying	Spray drying	Spray drying
Concentration	200 x	200 x	200 x
% Aloe Vera Gel	100	100	100
Aloin content as 1 x	< 0.1 ppm	< 0.1 ppm	< 0.1 ppm
Fileted by:	Machine	Hand	Hand
Preservatives	No	No	No
Certified organic	Yes	Yes	Yes
Certified by I.A.S.C.	No	Yes	Yes
Specialties	n.a.	n.a.	contains guaranteed min. 10 % Polysaccharides

Aloe Vera Gel

Organic Powders Freeze Dried

Product description	TN003 Aloe Vera Powder	TN003 CR Aloe Vera Powder
Version	Decolorized	Decolorized
Type of drying	Freeze drying	Freeze drying
Concentration	200 x	200 x
% Aloe Vera Gel	100	100
Aloin content as 1 x	< 0.1 ppm	< 0.1 ppm
Fileted by:	Machine	Hand
Preservatives	No	No
Certified organic	Yes	Yes
Certified by I.A.S.C.	No	Yes
NaturLock quality	No	No

Aloe Vera Gel

Powders with Maltodextrin

Product description	TD012 Aloe Vera Powder	TD015 Aloe Vera Powder
Version	Regular	Decolorized
Type of drying	Spray drying	Freeze drying
Concentration	100 x	100 x
% Aloe Vera Gel	50	50
% Maltodextrin	50	50
Aloin content as 1 x	< 0.1 ppm	< 0.1 ppm
Fileted by:	Machine	Machine
Preservatives (INCI) Potassium Sorbate Sodium Benzoate Citric Acid to pH 3.5–5.0	 0.50 % 0.50 % adjusted	 0.50 % 0.50 % adjusted
Certified organic	No	No
Certified by I.A.S.C.	No	No

Aloe Vera Oil Extracts

Product description	AO001 Aloe Oil Extract CG	AO002 Aloe Oil Extract REG
Version	Cosmetic Grade	Regular
Manufacturing process	Extract from aloe vera whole leaf powder	Extract from aloe vera whole leaf powder
Concentration Aloe Vera Gel	Approx. 2.6 %	Approx. 2.6 %
Product form	Liquid	Liquid
Extraction solvent	50 % Coconut oil 50 % Mineral oil	Soybean oil
Aloin content	< 0.1 ppm	< 0.1 ppm
Preservatives / Antioxidants	No	No
Certified by I.A.S.C.	No	No

INCI declaration
of Aloe Vera Products

Finally we have to separate two classes of Aloe Vera products:
1. Aloe Vera Extracts
2. Aloe Vera Gels and its concentrates

1. INCI declaration for Aloe Vera Extracts

The solvent of the extract is to mention next to the Aloe Barbadensis Leaf Extract. For water based extracts, the dry residue is the content of Aloe Barbadensis Leaf Extract. For oily extracts an expected content of dry matter is to use as concentration. In the case of Aloe Vera Oil Extract AO002 following breakdown is recommended:

INCI name USA	INCI name Europe	% value
Aloe Barbadensis Leaf Extract	Aloe Barbadensis Leaf Extract	0.03
Glycine Soja (Soybean) Oil	Glycine Soja Oil	99.97

2. INCI declaration for Aloe Vera Gels and its concentrates

Aloe Vera Gel (1x)

Aloe Vera Gel's big difference to an extract is the fact that it is a juice and therefore no solvent has been used. In a plant juice the solvent is a part of the plant and no extraction process occurs. By using 10 % of Aloe Vera Gel AG003 mixed with 90 % of water, following declaration results:

INCI name USA	INCI name Europe	% value
Water demin.	Aqua	90.00
Aloe Barbadensis Leaf Juice	Aloe Barbadensis Leaf Juice	9.80
Potassium Sorbate	Potassium Sorbate	0.10
Sodium Benzoate	Sodium Benzoate	0.10

Aloe Vera Gel concentrates (10x, 40x, 100x, 200x)

During the concentration process of Aloe Vera Gel, only water is removed from the gel what makes it more concentrated in dry matter. By using this concentrate in a cosmetic product, we add some water to the concentrate to restore the original Aloe Vera Gel.

Example: 1 % of Aloe Vera Gel concentrate AG014 (10x) means 10 % of Aloe Vera Gel after re-dilution with water.

If we take care on the contained preservatives, 9.98 % of Aloe Vera Gel is the final content. By using 1 % of Aloe Vera Gel AG014 (10x) mixed with 99 % of water, following declaration results:

INCI name USA	INCI name Europe	% value
Water demin.	Aqua	90.018
Aloe Barbadensis Leaf Juice	Aloe Barbadensis Leaf Juice	9.980
Potassium Sorbate	Potassium Sorbate	0.001
Sodium Benzoate	Sodium Benzoate	0.001

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