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CERTIFICATE OF ANALYSIS**American Cranberry Extract**

Proanthocyanidins 15% BL-DMAC

Lot Number: CBE-190301 Manufacture Date: 2019/03/08

Expiry Date: 2021/03/07

Food Grade

Extract Solvent: Ethanol/Water(70/30) Carrier: Maltodextrin 10%

General Information

Part Used	IQF Fruit	Solvents Used	Water/Ethanol
Botanical Source	<i>Vaccinium macrocarpon L</i>	Country Of Origin	U.S.A,Canada

ITEMS	SPECIFICATION	METHOD	TEST RESULTS
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Physical&Chemical Data

Color	Violet-Red	Organoleptic	Conform
Odor	Characteristic	Organoleptic	Conform
Appearance	Fine Powder	Organoleptic	Conform

Analytical Quality

Identification	Identical to R.S. sample	HPTLC	Identical
Proanthocyanidins	≥15.0%	BL-DMAC	15.2%
Extract Ratio	40:1		Conform
Sieve analysis	100% through 80 mesh	USP34<786>	Conform
Loss on Drying	≤5.0%	Eur.Ph.7.0 [2.8.17]	2.7%

Contaminants

Lead (Pb)	≤3.0 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS	Conform
Arsenic (As)	≤2.0 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS	Conform
Cadmium (Cd)	≤1.0 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS	Conform
Mercury (Hg)	≤0.1 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS	Conform
Solvents Residue	Meet Eur.Ph.7.0<5.4>	Eur.Ph 7.0<2.4.24>	Conform
Pesticides Residue	Meet USP Requirements	USP34 <561>	Conform

Microbiological

Total Plate Count	≤1000 cfu/g	USP34 <61>	Conform
Yeast &Mold	≤100 cfu/g	USP34 <61>	Conform
E.Coli.	Negative	USP34 <62>	Conform
Salmonella	Negative	USP34 <62>	Conform

General Status

Packing&Storage	Packed in paper-drums and two plastic-bags inside. N.W:25kgs. Store in a well-closed container Away from moisture, light, oxygen.
Shelf life	24 months under the conditions above and in its original packaging.
Remarks	Non-GMO, Non-Allergen

Analytical Laboratory Manager

Date: 2019.03.16



王海