

Apple – Pesticide Residue Compliance Summary Report

Sample Details

Product: Apple
Tested By: FARE Labs Pvt. Ltd. (NABL Accredited)
Report Date: 13 October 2025
Sample Receipt Date: 08 October 2025
Test Type: Multi-Residue, Heavy Metals, and Contaminants Analysis

Number of Pesticides Tested

The laboratory screened for **over 40 pesticide molecules** under the FSSR 2011 pesticide residue framework, including:

- Organophosphates
- Organochlorines
- Pyrethroids
- Carbamates
- Fungicides
- Herbicides

Additionally, tests were conducted for **heavy metals, melamine, and naturally occurring toxic substances** to ensure full-spectrum food safety.
All analyses followed **NABL-accredited methods** suitable for **export-level and organic compliance testing**.

Test Results Summary

- **No pesticide residues detected** — all compounds reported as **BLQ (Below Limit of Quantification)**.
- **No wax, mineral oil, or carbide gas coating** found.
- **Heavy metals** such as Lead, Arsenic, Cadmium, and Mercury were either **Not Detected** or **Below LOQ**, well within FSSAI permissible limits.
- **Sulphur dioxide, wax coating, and colouring agents** were **absent**.
- **Melamine and natural toxins** (Agaric acid, Hydrocyanic acid, etc.) were also **Not Detected**.

In summary, the apple sample **conforms fully to FSSR, 2011 standards**.

Interpretation

Residue Category Overview

Category	Finding	Remarks
Organophosphates	ND	No synthetic pest control chemicals detected
Organochlorines (DDT, Endosulfan etc.)	ND	Indicates clean soil and low contamination risk
Pyrethroids	ND	No post-harvest spraying or chemical residue
Carbamates	ND	Confirms absence of synthetic insecticides

Fungicides (e.g. Mancozeb, Carbendazim, Captan)	ND	Suggests natural disease management
Herbicides (Glyphosate, Paraquat etc.)	ND	Confirms non-use of chemical weed control

Other Chemical Findings

Category	Finding	Remarks
Heavy Metals	BLQ / ND	Well below FSSAI limits, indicating safe mineral profile
Wax, Oil, Colour Coatings	Absent	Confirms natural untreated fruit surface
Sulphur Dioxide	ND	No sulphite preservatives detected
Melamine & Natural Toxins	ND	No adulteration or harmful compounds found

Conclusion

- No pesticide residues detected – fully BLQ/ND
- Complies with FSSAI, 2011 food-safety and organic guidelines
- Safe for consumption and consistent with natural or organically grown produce
- Excellent sample quality — no artificial ripening or coating agents used

Appendix

This appendix is attached to the original FARE Labs Apple report (13 Oct 2025) and summarizes residue analysis in line with FSSAI and NPOP organic guidelines.

It provides a clear interpretation of test results, confirming the safety and organic integrity of the product.

TEST REPORT

Issued to: The Staple Kaka

A-137 Ground Floor, DDA Shed,
Okhla Industrial Area, Phase -II
New Delhi-110020, India

J.O. No.: FL/FA/08102025-153

ULR Code: F

Report Date: 13/10/2025

Sample Receipt Date: 08/10/2025

Account Manager: BD Team 1

Credit Manager: Gulab/Septesh

Customer Provided Information:

Nature/Name of the Sample

: Apple

Laboratory Provided Information:

Sample Quantity

: 1x1.150kg, Polypack

Date of Performance of Test

: 8th – 13th Oct, 2025

Method of Sampling

: FL/SOP/B/D-03

Sample Picked By

: Mr. Arun (FARE Labs Representative) at the premises
of The Staple Kaka



Analysis Report

Physical Description: Apple, free from foreign matter.

S. No.	Parameter	Test Result	FSSR, 2011	Protocol
Chemical Analysis:				
1	Exposure to Carbide Gas	Absent	Absent	FL/SOP/FC-42
2	Rotting	Absent	Absent	FL/SOP/FC-111
3	Coating of Waxes	Absent	Absent	FL/SOP/C-43
4	Coating of Mineral Oil	Absent	Absent	FL/SOP/FC-44
5	Coating of Colour	Absent	Absent	FL/SOP/FC-07
6	Sulfur dioxide (as SO ₂), mg/kg	ND, [DL-10]	Absent	FL/SOP/FC-249
Nutritional Analysis:				
1	Carbohydrate, g/100g	10.08	Not Specified	IS 1656
2	Energy, kcal/100g	40.32	Not Specified	FL/SOP/FC-02
3	Fat, g/100g	ND, [DL-0.1]	Not Specified	IS 12711
4	Fibre, g/100g	1.78	Not Specified	FL/SOP/FC-185
5	Protein, g/100g	ND, [DL-0.1]	Not Specified	IS 7219
6	Sugar, g/100g	9.35	Not Specified	FSSAI Manual 4, 2015
7	Sodium, mg/100g	1.08	Not Specified	FL/SOP/11-02

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Authorised Signatory

Mr. Piyush Jai Mallick, Scientist C

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Analysis Report

S. No.	Parameter	Test Result	FSSR, 2011	Protocol
Heavy Metals:				
1	Lead, mg/kg	BLQ, [LOQ-0.02]	NMT 0.1	FL/SOP/12-02
2	Copper, mg/kg	0.72	NMT 30	FL/SOP/12-02
3	Arsenic, mg/kg	BLQ, [LOQ-0.02]	NMT 1.1	FL/SOP/12-02
4	Tin, mg/kg	BLQ, [LOQ-0.05]	NMT 250	FL/SOP/12-02
5	Cadmium, mg/kg	BLQ, [LOQ-0.02]	NMT 1.5	FL/SOP/12-02
6	Mercury, mg/kg	BLQ, [LOQ-0.02]	NMT 1.0	FL/SOP/12-02
7	Methyl Mercury Calculated as element, mg/kg	BLQ, [LOQ-0.02]	NMT 0.25	FL/SOP/12-02

BLQ= Below Limit of Quantification; **LOQ**=Limit of Quantification; **NMT**=Not More Than

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Mr. Mithilesh Kumar, Scientist-B

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S. No.	Parameter	Test Result	FSSR, 2011	Protocol
1	Melamine, mg/kg	BLQ, [LOQ-0.25]	NMT 2.5	FL/SOP/04-02
Naturally Occurring Toxic Materials:				
1	Agaric acid, mg/kg	ND, [DL-1]	Not Specified	FL/SOP/01-25
2	Hypericine, mg/kg	ND, [DL-0.5]	Not Specified	FL/SOP/01-26
3	Hydrocyanic acid, mg/kg	ND, [DL-0.2]	Not Specified	FL/SOP/FC-117
4	Saffrole, mg/kg	ND, [DL-1]	Not Specified	FL/SOP/02-28

ND=Not Detected; **DL**=Detection Limit; **NMT**=Not More Than; **LOQ**=Limit of Quantification;

BLQ=Below Limit of Quantification

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Pesticide Residues, mg/kg				
1	2,4-Dichlorophenoxy Acetic Acid, mg/kg	BLQ, [LOQ-0.01]	NMT 2	FL/SOP/03-01
2	Benomyl, mg/kg	BLQ, [LOQ-0.01]	NMT 5	FL/SOP/03-01
3	Bifenthrin, mg/kg	BLQ, [LOQ-0.01]	NMT 0.5	FL/SOP/05-01
4	Bitertanol, mg/kg	BLQ, [LOQ-0.01]	NMT 0.4	FL/SOP/03-01
5	Captan, mg/kg	BLQ, [LOQ-0.01]	NMT 15	FL/SOP/05-01
6	Carbendazim, mg/kg	BLQ, [LOQ-0.01]	NMT 5	FL/SOP/03-01
7	Carbofuran, mg/kg	BLQ, [LOQ-0.01]	NMT 0.10	FL/SOP/03-01
8	Chlorpyrifos, mg/kg	BLQ, [LOQ-0.01]	NMT 0.5	FL/SOP/05-01
9	Copper Oxychloride as copper, mg/kg	0.72	NMT 30	FL/SOP/12-10
10	Dichlorvos, mg/kg	BLQ, [LOQ-0.01]	NMT 0.1	FL/SOP/05-01
11	Dicofol, mg/kg	BLQ, [LOQ-0.01]	NMT 5	FL/SOP/05-01
12	Difenoconazole, mg/kg	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/03-01
13	Dimethoate, mg/kg	BLQ, [LOQ-0.01]	NMT 2	FL/SOP/03-01
14	Dithianon, mg/kg	BLQ, [LOQ-0.01]	NMT 0.1	FL/SOP/03-01
15	Ethylene bis- dithiocarbamates resulting from the use of mancozeb, maneb or zineb (including zineb derived from nabam plus zinc sulphate), mg/kg	BLQ, [LOQ-0.01]	NMT 3	FL/SOP/05-04
16	Metiram as CS ₂ , mg/kg	BLQ, [LOQ-0.01]	NMT 0.05	FL/SOP/05-04
17	Dodine, mg/kg	BLQ, [LOQ-0.01]	NMT 5	FL/SOP/03-01
18	Ethion, mg/kg	BLQ, [LOQ-0.01]	NMT 2	FL/SOP/05-01
19	Fenarimol, mg/kg	BLQ, [LOQ-0.01]	NMT 5	FL/SOP/03-01
20	Fenazaquin, mg/kg	BLQ, [LOQ-0.01]	NMT 0.2	FL/SOP/03-01
21	Flusilazole, mg/kg	BLQ, [LOQ-0.01]	NMT 0.05	FL/SOP/03-01

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of The Staple Kaka**Analysis Report**

S. No.	Parameter	Test Result	FSSR, 2011	Protocol
Pesticide Residues, mg/kg				
22	Hexaconazole, mg/kg	BLQ, [LOQ-0.01]	NMT 0.3	FL/SOP/03-01
23	Hexythiazox, mg/kg	BLQ, [LOQ-0.01]	NMT 4	FL/SOP/05-01
24	Malathion, mg/kg	BLQ, [LOQ-0.01]	NMT 1	FL/SOP/03-01
25	Monocrotophos, mg/kg	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/03-01
26	Myclobutanil, mg/kg	BLQ, [LOQ-0.01]	NMT 0.05	FL/SOP/03-01
27	Paraquat dichloride (Determined as Paraquatcations), mg/kg	BLQ, [LOQ-0.01]	NMT 0.1	FL/SOP/03-01
28	Penconazole, mg/kg	BLQ, [LOQ-0.01]	NMT 0.05	FL/SOP/05-01
29	Phorate, mg/kg	BLQ, [LOQ-0.01]	NMT 5	FL/SOP/05-01
30	Phosalone, mg/kg	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/03-01
31	Prohexadione calcium, mg/kg	BLQ, [LOQ-0.01]	NMT 3	FL/SOP/03-01
32	Propargite, mg/kg	BLQ, [LOQ-0.01]	NMT 1	FL/SOP/05-01
33	Propineb, mg/kg	BLQ, [LOQ-0.01]	NMT 0.5	FL/SOP/03-01
34	Pyraclostrobin, mg/kg	BLQ, [LOQ-0.01]	NMT 0.01	FL/SOP/03-01
35	Spiromesifen, mg/kg	BLQ, [LOQ-0.01]	NMT 1	FL/SOP/03-01
36	Tebuconazole, mg/kg	BLQ, [LOQ-0.01]	NMT 0.7	FL/SOP/03-01
37	Thiacloprid, mg/kg	BLQ, [LOQ-0.01]	NMT 0.5	FL/SOP/05-01
38	Thiometon, mg/kg	BLQ, [LOQ-0.01]	NMT 5	FL/SOP/03-01
39	Thiophanate-Methyl, mg/kg	BLQ, [LOQ-0.01]	NMT 0.1	FL/SOP/03-01
40	Trichlorfon, mg/kg	BLQ, [LOQ-0.01]	NMT 0.7	FL/SOP/03-01
41	Trifloxystrobin, mg/kg	BLQ, [LOQ-0.01]	NMT 0.9	FL/SOP/03-01
42	Fluxapyroxad, mg/kg	BLQ, [LOQ-0.01]	NMT 0.3	FL/SOP/03-01

BLQ=Below Limit of Quantification; LOQ=Limit of Quantification; NMT=Not More Than

Inference:- The tested sample **Conforms** to FSSR, 2011 w.r.t. above tests.**Reviewed By**

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****End of Report****