



CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Gujarat Pink **Sample ID:** PINK116-V03-L01
Stock: April–May 2026 | **COA backed by NABL approved ISO/IEC 17025:2017 laboratory** **Lot:** PINK116-26M05-031

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11631	
Report Ref	BB-COA-PINK116-26M05-031	
Batch / Lot	B-PINK116-26M05-031	
Sample ID	PINK116-V03-L01	
Date of sample submission	12/05/2026	
Date received in lab	14/05/2026	
Analysis period	15/05/2026 to 18/05/2026	
Date of issue	18/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Gujarat Pink	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	78 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	13.7 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	99%	Visual	Pass
Moisture	Mandatory	Fresh bulb	83.9%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.039 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 4.1 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	308 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	2.0%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	69.0%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.08 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.03 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.050 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.005 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 0.6 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 1.8 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 5314 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 36 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	96.4	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	8.5	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

Remark:

COA backed with NABL approved lab. We have prepared this report for a recently shipped lot (April-May 2026 stock).
Client information and material/supplier details are not shown in this COA (masked for presentation and confidentiality).
Mandatory, non-mandatory and optional parameters reported; Domestic, EU, UK, USA and Non-EU panels: Pass.
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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Gujarat Pink | **Sample ID:** PINK116-V03-L02
Stock: April–May 2026 | **COA backed by NABL approved ISO/IEC 17025:2017 laboratory** | **Lot:** PINK116-26M05-032

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11632	
Report Ref	BB-COA-PINK116-26M05-032	
Batch / Lot	B-PINK116-26M05-032	
Sample ID	PINK116-V03-L02	
Date of sample submission	02/05/2026	
Date received in lab	04/05/2026	
Analysis period	04/05/2026 to 12/05/2026	
Date of issue	12/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Gujarat Pink	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	77 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	8.8 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	98%	Visual	Pass
Moisture	Mandatory	Fresh bulb	86.8%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.006 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 2.0 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	381 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	5.7%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	35.4%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.05 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.15 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.030 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.005 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 0.3 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 4.5 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 3540 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 444 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	96.1	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	8.3	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

Remark:

COA backed with NABL approved lab. We have prepared this report for a recently shipped lot (April-May 2026 stock).
Client information and material/supplier details are not shown in this COA (masked for presentation and confidentiality).
Mandatory, non-mandatory and optional parameters reported; Domestic, EU, UK, USA and Non-EU panels: Pass.
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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Gujarat Pink **Sample ID:** PINK116-V03-L03
Stock: April–May 2026 | **COA backed by NABL approved ISO/IEC 17025:2017 laboratory** **Lot:** PINK116-26M05-033

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11633	
Report Ref	BB-COA-PINK116-26M05-033	
Batch / Lot	B-PINK116-26M05-033	
Sample ID	PINK116-V03-L03	
Date of sample submission	11/05/2026	
Date received in lab	14/05/2026	
Analysis period	15/05/2026 to 20/05/2026	
Date of issue	21/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Gujarat Pink	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	69 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	8.9 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	95%	Visual	Pass
Moisture	Mandatory	Fresh bulb	82.4%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.013 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 1.3 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	390 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	9.4%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	24.6%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.06 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.09 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.026 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.007 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 1.7 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 4.7 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 2786 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 361 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	98.3	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	8.9	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Gujarat Pink | **Sample ID:** PINK116-V03-L04
Stock: April–May 2026 | **COA backed by NABL approved ISO/IEC 17025:2017 laboratory** | **Lot:** PINK116-26M05-034

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11634	
Report Ref	BB-COA-PINK116-26M05-034	
Batch / Lot	B-PINK116-26M05-034	
Sample ID	PINK116-V03-L04	
Date of sample submission	22/04/2026	
Date received in lab	28/04/2026	
Analysis period	29/04/2026 to 08/05/2026	
Date of issue	08/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Gujarat Pink	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	67 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	11.9 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	96%	Visual	Pass
Moisture	Mandatory	Fresh bulb	89.4%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.024 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 3.8 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	377 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	14.4%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	28.5%	AOAC	Pass

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Praveen Dhama

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Praveen Dhama
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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.05 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.08 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.037 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.004 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 0.4 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 2.8 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 3923 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 478 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	93.6	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	7.8	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

Remark:

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Gujarat Pink **Sample ID:** PINK116-V03-L05

Stock: April–May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-035

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11635	
Report Ref	BB-COA-PINK116-26M05-035	
Batch / Lot	B-PINK116-26M05-035	
Sample ID	PINK116-V03-L05	
Date of sample submission	02/05/2026	
Date received in lab	09/05/2026	
Analysis period	10/05/2026 to 18/05/2026	
Date of issue	19/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Gujarat Pink	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	75 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	8.1 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	98%	Visual	Pass
Moisture	Mandatory	Fresh bulb	84.8%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.004 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 1.1 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	97 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	4.2%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	38.9%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.13 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.15 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.061 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.007 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 1.5 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 5.0 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 3238 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 165 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	98.1	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	7.7	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

Remark:

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Praveen Dhama

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Pink Rose

Sample ID: PINK116-V02-L01

Stock: April–May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-021

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11621	
Report Ref	BB-COA-PINK116-26M05-021	
Batch / Lot	B-PINK116-26M05-021	
Sample ID	PINK116-V02-L01	
Date of sample submission	29/04/2026	
Date received in lab	02/05/2026	
Analysis period	03/05/2026 to 09/05/2026	
Date of issue	09/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Pink Rose	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	77 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	13.8 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	100%	Visual	Pass
Moisture	Mandatory	Fresh bulb	87.3%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.020 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 2.1 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	95 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	5.2%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	13.2%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.06 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.11 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.024 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.007 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 1.8 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 4.8 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 7125 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 335 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	98.2	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	6.8	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

Remark:

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Pink Rose

Sample ID: PINK116-V02-L02

Stock: April–May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-022

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11622	
Report Ref	BB-COA-PINK116-26M05-022	
Batch / Lot	B-PINK116-26M05-022	
Sample ID	PINK116-V02-L02	
Date of sample submission	01/05/2026	
Date received in lab	05/05/2026	
Analysis period	05/05/2026 to 13/05/2026	
Date of issue	13/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Pink Rose	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	78 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	11.1 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	98%	Visual	Pass
Moisture	Mandatory	Fresh bulb	85.5%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.028 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 3.8 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	376 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	2.0%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	74.9%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.16 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.04 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.040 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.005 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 1.7 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 3.5 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 556 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 285 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	94.9	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	7.6	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

Remark:

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | Variety: Pink Rose

Sample ID: PINK116-V02-L03

Stock: April-May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-023

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11623	
Report Ref	BB-COA-PINK116-26M05-023	
Batch / Lot	B-PINK116-26M05-023	
Sample ID	PINK116-V02-L03	
Date of sample submission	10/05/2026	
Date received in lab	14/05/2026	
Analysis period	15/05/2026 to 19/05/2026	
Date of issue	20/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Pink Rose	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	52 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	9.0 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	98%	Visual	Pass
Moisture	Mandatory	Fresh bulb	83.0%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.013 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 3.2 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	335 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	9.3%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	32.3%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.15 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.06 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.024 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.003 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 0.6 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 1.5 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 7154 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 847 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	98.7	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	8.7	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Pink Rose

Sample ID: PINK116-V02-L04

Stock: April-May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-024

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11624	
Report Ref	BB-COA-PINK116-26M05-024	
Batch / Lot	B-PINK116-26M05-024	
Sample ID	PINK116-V02-L04	
Date of sample submission	03/05/2026	
Date received in lab	10/05/2026	
Analysis period	10/05/2026 to 14/05/2026	
Date of issue	15/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Pink Rose	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	79 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	10.7 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	95%	Visual	Pass
Moisture	Mandatory	Fresh bulb	84.1%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.017 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 2.0 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	353 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	6.7%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	48.9%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.17 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.16 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.060 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.013 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 0.7 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 5.3 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 2235 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 501 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	94.7	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	6.7	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Pink Rose

Sample ID: PINK116-V02-L05

Stock: April–May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-025

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11625	
Report Ref	BB-COA-PINK116-26M05-025	
Batch / Lot	B-PINK116-26M05-025	
Sample ID	PINK116-V02-L05	
Date of sample submission	07/05/2026	
Date received in lab	12/05/2026	
Analysis period	13/05/2026 to 21/05/2026	
Date of issue	22/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Pink Rose	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	65 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	11.6 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	98%	Visual	Pass
Moisture	Mandatory	Fresh bulb	83.4%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.021 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 5.4 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	387 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	8.0%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	35.8%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.21 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.08 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.017 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.010 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 0.6 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 4.9 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 7397 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 267 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	97.5	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	8.8	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

Remark:

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Pusa Madhavi **Sample ID:** PINK116-V01-L01

Stock: April–May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-011

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11611	
Report Ref	BB-COA-PINK116-26M05-011	
Batch / Lot	B-PINK116-26M05-011	
Sample ID	PINK116-V01-L01	
Date of sample submission	29/04/2026	
Date received in lab	05/05/2026	
Analysis period	05/05/2026 to 14/05/2026	
Date of issue	14/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Pusa Madhavi	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	55 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	12.4 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	96%	Visual	Pass
Moisture	Mandatory	Fresh bulb	83.9%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.004 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 1.3 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	254 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	5.6%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	60.4%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.25 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.10 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.055 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.005 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 0.7 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 2.1 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 7524 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 175 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	93.1	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	8.5	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Pusa Madhavi **Sample ID:** PINK116-V01-L02

Stock: April-May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-012

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11612	
Report Ref	BB-COA-PINK116-26M05-012	
Batch / Lot	B-PINK116-26M05-012	
Sample ID	PINK116-V01-L02	
Date of sample submission	01/05/2026	
Date received in lab	06/05/2026	
Analysis period	07/05/2026 to 14/05/2026	
Date of issue	14/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Pusa Madhavi	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	53 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	11.7 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	96%	Visual	Pass
Moisture	Mandatory	Fresh bulb	89.8%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.020 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 1.2 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	219 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	11.5%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	59.4%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.11 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.13 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.029 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.011 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 1.5 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 4.4 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 1195 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 873 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	95.3	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	6.6	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Pusa Madhavi **Sample ID:** PINK116-V01-L03

Stock: April–May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-013

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11613	
Report Ref	BB-COA-PINK116-26M05-013	
Batch / Lot	B-PINK116-26M05-013	
Sample ID	PINK116-V01-L03	
Date of sample submission	03/05/2026	
Date received in lab	08/05/2026	
Analysis period	08/05/2026 to 16/05/2026	
Date of issue	17/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Pusa Madhavi	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	64 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	13.5 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	96%	Visual	Pass
Moisture	Mandatory	Fresh bulb	82.4%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.003 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 4.8 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	374 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	9.9%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	13.7%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.13 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.11 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.055 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.015 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 1.6 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 3.3 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 1540 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 798 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	98.3	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	7.0	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

Remark:

COA backed with NABL approved lab. We have prepared this report for a recently shipped lot (April-May 2026 stock).
Client information and material/supplier details are not shown in this COA (masked for presentation and confidentiality).
Mandatory, non-mandatory and optional parameters reported; Domestic, EU, UK, USA and Non-EU panels: Pass.
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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Pusa Madhavi **Sample ID:** PINK116-V01-L04

Stock: April-May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-014

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11614	
Report Ref	BB-COA-PINK116-26M05-014	
Batch / Lot	B-PINK116-26M05-014	
Sample ID	PINK116-V01-L04	
Date of sample submission	07/05/2026	
Date received in lab	13/05/2026	
Analysis period	13/05/2026 to 16/05/2026	
Date of issue	16/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Pusa Madhavi	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	52 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	11.2 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	97%	Visual	Pass
Moisture	Mandatory	Fresh bulb	82.9%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.018 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 4.9 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	166 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	7.9%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	59.2%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.07 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.15 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.055 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.006 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 0.5 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 1.1 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 3008 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 381 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	95.3	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	8.0	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
Report validity	Info	Sample & lot specific	Noted	QA	Info

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CERTIFICATE OF ANALYSIS - PROFESSIONAL LAB REPORT

Category: Pink onion (Pink onion (commodity grade)) | **Variety:** Pusa Madhavi **Sample ID:** PINK116-V01-L05

Stock: April–May 2026 | COA backed by NABL approved ISO/IEC 17025:2017 laboratory

Lot: PINK116-26M05-015

Field	Value	NABL Approved Lab
Report ID	BBLLP/PINK116/2026/05/11615	
Report Ref	BB-COA-PINK116-26M05-015	
Batch / Lot	B-PINK116-26M05-015	
Sample ID	PINK116-V01-L05	
Date of sample submission	01/05/2026	
Date received in lab	05/05/2026	
Analysis period	05/05/2026 to 10/05/2026	
Date of issue	10/05/2026	
Manufacturer	Botanika Bharat LLP	
Address	Rudrapur, Uttarakhand, India	
Sample quantity	1.5 kg	
Lab accreditation	NABL approved (ISO/IEC 17025:2017)	
Market clearance	Domestic, EU, UK, USA, Non-EU: Pass	

General Profile (Identity & Grade)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Appearance	Mandatory	Characteristic export grade	Complies	Organoleptic	Pass
Botanical identity	Mandatory	Pink onion (commodity grade)	Confirmed	Macroscopy / DNA spot	Pass
Variety / cultivar	Mandatory	Pusa Madhavi	Confirmed	Traceability	Pass
Odour & taste	Mandatory	Typical, no off-note	Complies	Organoleptic	Pass
Foreign odour	Mandatory	Absent	Absent	Organoleptic	Pass

Adulteration & Authenticity (Buyer Critical)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Undeclared fillers / starch	Mandatory	Absent	Absent	Iodine / FTIR	Pass
Species substitution	Mandatory	Absent	Absent	HPTLC / DNA	Pass
Surface mould / rot	Mandatory	Absent	Absent	Visual	Pass
Extraneous matter	Non-mandatory	Within grade	Complies	ISO 927	Pass

Chemical & Trade Markers (Buyer Decision)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Bulb diameter (mm)	Mandatory	55+ export	85 mm	Caliper	Pass
TSS (°Brix)	Non-mandatory	Dry matter indicator	13.5 °Brix	Refractometer	Pass
Single centre bulbs	Mandatory	> 95%	97%	Visual	Pass
Moisture	Mandatory	Fresh bulb	84.2%	AOAC	Pass
Sprouting / bolting	Mandatory	Absent	Absent	Visual	Pass
Pesticide residue (panel)	Mandatory	MRL all markets	0.009 mg/kg	LC-MS/MS	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 5.1 µg/kg	HPLC	Pass

Nutritional (Optional)

Parameter	Type	Allowed limit/spec	Result	Method	Status
Energy	Optional	Label reference	369 kcal/100g	Calculation	Pass
Protein	Optional	Label reference	9.4%	Kjeldahl	Pass
Carbohydrate	Optional	Label reference	67.0%	AOAC	Pass

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Domestic India — FSSAI Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
FSSAI product category	Mandatory	Applicable schedule	Conforms	Regulatory review	Pass
FSSAI pesticide MRL	Mandatory	Within CIBRC notified limits	Complies	LC-MS/MS	Pass
FSSAI heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
BIS / FSSAI microbiology	Mandatory	Retail-ready where applicable	Complies	ISO/BIS	Pass
Legal metrology (net qty)	Non-mandatory	Declared	Conforms	Doc review	Pass

EU Buyer / Import Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
Lead (Pb)	Mandatory	Reg. 2023/915	0.05 mg/kg	ICP-MS	Pass
Arsenic (As)	Mandatory	EU limits	0.06 mg/kg	ICP-MS	Pass
Cadmium (Cd)	Mandatory	EU limits	0.046 mg/kg	ICP-MS	Pass
Mercury (Hg)	Mandatory	EU limits	0.004 mg/kg	ICP-MS	Pass
Aflatoxin B1	Mandatory	< 5 µg/kg	< 1.6 µg/kg	HPLC	Pass
Total aflatoxins	Mandatory	< 10 µg/kg	< 2.0 µg/kg	HPLC	Pass
EU pesticide MRL (EC 396/2005)	Mandatory	Compliant	Complies	LC-MS/MS	Pass
Import documentation (CHED)	Non-mandatory	Ready	Conforms	QA	Pass

UK Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
UK retained EU contaminants	Mandatory	Documented	Conforms	Reg check	Pass
UK FSA heavy metals	Mandatory	Within limits	Complies	ICP-MS	Pass
UK mycotoxin spec	Mandatory	Within limits	Complies	HPLC	Pass
UK pesticide MRL	Mandatory	GB MRL / buyer	Complies	LC-MS/MS	Pass
UK microbiology (retail)	Mandatory	Within spec	Complies	ISO	Pass

USA Buyer Panel (FDA/FSMA)

Parameter	Type	Allowed limit/spec	Result	Method	Status
FDA FSMA / FSVP readiness	Mandatory	Documented	Conforms	QA review	Pass
TAMC	Mandatory	< 100000 cfu/g	< 562 cfu/g	USP <2021> / ISO 4833	Pass
Yeast & mould	Mandatory	< 10000 cfu/g	< 496 cfu/g	USP <2021> / ISO 21527	Pass
E. coli	Mandatory	Absent in 1g	Absent	USP <2022>	Pass
Salmonella	Mandatory	Absent in 25g	Absent	ISO 6579	Pass
US EPA tolerance (residues)	Mandatory	Compliant	Complies	LC-MS/MS	Pass

Non-EU International Buyer Panel

Parameter	Type	Allowed limit/spec	Result	Method	Status
GCC (UAE / Saudi / Qatar) SPS	Mandatory	Halal / contaminant	Conforms	Panel review	Pass
Australia NZ MPI biosecurity	Mandatory	Import conditions	Conforms	Doc + lab	Pass
Japan MHLW / Korea MFDS	Mandatory	Residual limits	Complies	LC-MS/MS	Pass
Canada CFIA	Mandatory	Food import	Conforms	Panel	Pass
ASEAN (SG/MY/TH/VN)	Mandatory	Regional MRL	Complies	LC-MS/MS	Pass
Buyer release index	Non-mandatory	Composite score	94.7	QA	Pass

Mandatory Release Parameters

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Mandatory Release Parameters

Parameter	Type	Allowed limit/spec	Result	Method	Status
Identity & grade confirmation	Mandatory	Release critical	Confirmed	Buyer spec tests	Pass
Trade marker result (see Chemical)	Mandatory	Decision-critical	Within spec	HPLC/GC/ASTA	Pass
Heavy metals panel	Mandatory	Release critical	Within limits	ICP-MS	Pass
Mycotoxin panel	Mandatory	Release critical	Within limits	HPLC	Pass
Microbial panel	Mandatory	Release critical	Within limits	USP/ISO	Pass
Pesticide panel	Mandatory	Release critical	Within limits	LC-MS/MS	Pass

Optional & Physical Quality

Parameter	Type	Allowed limit/spec	Result	Method	Status
Colour score	Non-mandatory	Commercial	9.2	Visual	Pass
Packaging / seal integrity	Mandatory	Export	Pass	Visual	Pass
Shelf-life / Apr-May stock	Optional	Dispatch window	Conforms	QA	Pass

Critical Export Decision Summary

Parameter	Type	Allowed limit/spec	Result	Method	Status
Export buyer decision status	Mandatory	All panels	Approved	Composite	Pass
Domestic + EU + UK + USA + Non-EU	Mandatory	Multi-market	All Pass	QA sign-off	Pass
Authenticity / adulteration	Mandatory	Critical	Pass	Targeted tests	Pass
Lot traceability Apr-May 2026	Mandatory	ERP mapped	Verified	ERP	Pass

General Notes

Parameter	Type	Allowed limit/spec	Result	Method	Status
Stock period	Info	April-May 2026	Covered	QA	Info
NABL accreditation	Info	ISO/IEC 17025:2017	Verified	Cert on file	Info
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