Estd. 1999

YBL-Integrated Drug Discovery & Development

From Thaw to Assay

Consistent Cells & Optimized Media

Integrated Cell Expansion Kits & Co-Optimized Media for Uncompromised Culture Consistency

Human-Relevant Fidelity, Standardized.

Bridging the gap between human biology and translational drug discovery. YBL eliminates multi-vendor variables by delivering vertically integrated, assay-ready primary cell and matched media ecosystems, ensuring absolute culture consistency from day one.

1

De-Risked Clinical Translation

Utilize ethically sourced human primary cells to deliver reproducible toxicity profiles and advance regulatory NAM goals

2

Co-Optimized Synergy

Bypasses tedious, manual media optimization with a fully validated, ready-to-use culture ecosystem right out of the box.

3

True Physiological Fidelity

Sustains signature morphology, active metabolic markers, and functional pathways across multiple passages.

4

Zero Reagent Variables

Pairs in-house isolated primary cells with custom-matched media to lock in growth kinetics and eliminate multi-vendor drift.

Targeted Primary Human Skin Cell Portfolios

	NHEK Expansion Kit	NHEM Expansion Kit	NHDF Expansion Kit
Cryopreserved Primary Cells	Normal Human Epidermal Keratinocytes (NHEK) 1 vial – 0.5 × 10^6 cells	Normal Human Epidermal Melanocytes (NHEM) 1 vial – 0.5 × 10^6 cells	Normal Human Dermal Fibroblasts (NHDF) 1 vial – 0.5 × 10^6 cells
Basal Medium	NHEK Growth-SF Basal Medium Pack Size – 500 ml Storage : 2-8ºC	NHEM Growth Basal Medium Pack Size – 500 ml Storage : 2-8ºC	NHDF Growth Medium Pack Size – 500 ml Storage : 2-8ºC
Supplements	Part A – Growth Supplement Part B – Bovine Pituitary Extract Storage : -20ºC	Part A – Growth Supplement Storage : -20ºC	NA
Applications	For pre-clinical skin irritation, sensitization, and corrosion testing, where documented.	For stratified epidermal co-cultures, UV stress tracking, and pigment screening, where documented.	For scratch assays, ECM deposition tracking, and anti-fibrotic screening, where documented.

Quality & Regulatory Assurance

Product Documents

All expansion kits come with a safety datasheet and a technical datasheet inclusive of a technical protocol to reconstitute the final medium, thaw cells, sub-culture and cryopreserve cells

Certificate of Analysis

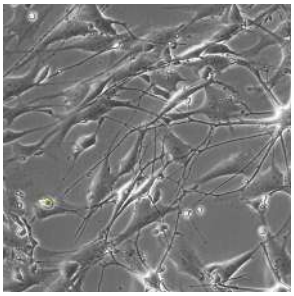
A certificate of analysis (CoA) is made available upon request for each component, that ensures biological integrity, and consistency.

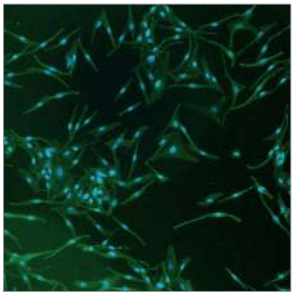
Ethics

Yashraj Biotechnology Ltd. derives in-house primary cells from patient samples that are ethically sourced with donor informed consent for research and commercial use.

Performance Data

NHEM Culture

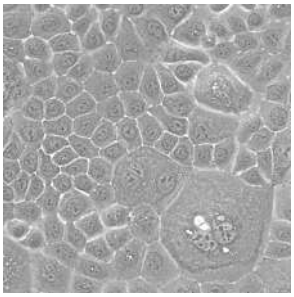


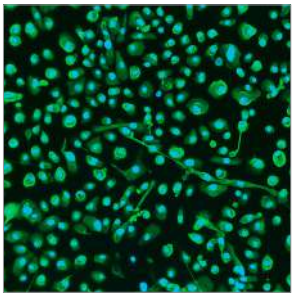


NHEM maintain phenotypic polydendritic morphology and express key markers (like TYRP1 (green)) when cultured in YBL NHEM Growth medium

	YBL NHEM Growth Medium	Commercial Medium
Cell Morphology	Polydendritic Morphology	Polydendritic Morphology
Cell Viability	99.0 %	94.1 %
Cell Purity	93.4 %	92.4 %
Phenotypic marker expression (TYRP1)	YES	YES

NHEK Culture





NHEK maintain phenotypic cobblestone morphology and express key markers (like CK14 (green)) when cultured in YBL NHEK Growth SF medium

	YBL NHEK Growth-SF Medium	Commercial Medium
Cell Morphology	Cobblestone Morphology	Cobblestone Morphology
Cell Viability	99.0 %	99.0 %
Cell Purity	99.8 %	99.0 %
Phenotypic marker expression (CK14)	YES	YES

Key Takeaways from the Comparative Study

1. Cell morphology and growth characteristics remained consistent between YBL media and commercial media, with **expected phenotypes observed in both setups.**
2. **High cell viability and purity were maintained using YBL expansion media,** achieving up to 99% viability and purity levels comparable to or slightly better than the existing media suppliers
3. **Post-isolation and cryopreservation outcomes validated the suitability of YBL media** for routine cell culture work-flows, confirming overall culture performance.

Standalone Media Offerings

	NHEK Growth-SF Medium	NHEM Growth Medium	NHDF Growth Medium
Basal Medium	NHEK Growth-SF Basal Medium Pack Size – 500 ml Storage : 2-8ºC	NHEM Growth Basal Medium Pack Size – 500 ml Storage : 2-8ºC	NHDF Growth Medium Pack Size – 500 ml Storage : 2-8ºC
Supplements	Part A – Growth Supplement Part B – Bovine Pituitary Extract Storage : -20ºC	Part A – Growth Supplement Storage : -20ºC	NA

Accelerate Your Skin Research Workflow

From thawing and expansion to assay-ready cultures — YBL delivers integrated solutions engineered for consistency, scalability, and translational relevance.

Reach out to us for

- Explore technical datasheets
- Request product information
- Connect with our scientific team
- Discover the complete skin cell portfolio

V1.0

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