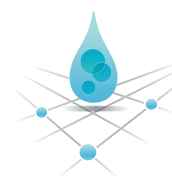


NOTHING
IS SIMPLE
IN ONCOLOGY.
**NOTHING
BUT
THIS.**



Idylla™ A revolutionary,
fully automated system that makes
molecular testing convenient and
exceptionally fast. [Suitable for any lab.](#)



BIOCARTIS

BIOCARTIS' MISSION
IS TO OFFER **RAPID & EASY**
MOLECULAR DIAGNOSTIC SOLUTIONS
AIMED AT ENABLING
FASTER & MORE ACCURATE
TREATMENT DECISIONS FOR ONCOLOGY
PATIENTS ACROSS THE GLOBE.

THE NEED FOR IMPROVED, STANDARDIZED AND FAST DIAGNOSTICS



Cancer can hit anyone at any time and treatment remains a real challenge. Because cancer doesn't follow rules. It fights back against therapies. It adapts. It changes its path. It does whatever it can to stay ahead of us.

At the advanced edge of oncology, **rapid access** to **accurate data** about relevant cancer mutations and treatment resistance is vital and creates the opportunity for early disease interception^{4,5} reducing the anxiety while waiting for results and the time before starting the best possible treatment.

Current technologies in molecular oncology are complex, require a lot of hands-on time and are often difficult to implement in the local laboratory. As a consequence, most laboratories do not perform molecular tests in-house, but send them out to specialized centers, where samples are batched in order to optimize costs.¹⁻³

This causes delay to the fast delivery of results, preventing rapid initiation of correct therapy. In the meantime the tumor grows, which is detrimental in case of aggressively growing cancers.

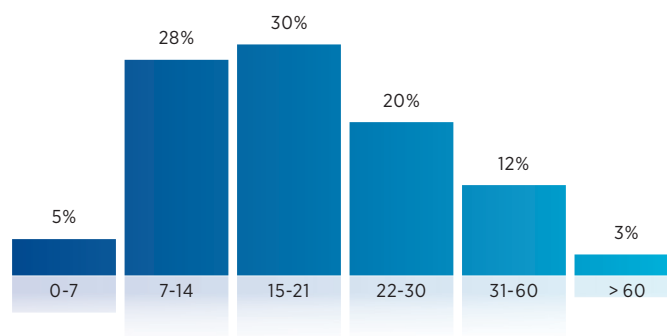
THE NEED FOR A RAPID TREATMENT INITIATION RESPONSE TOWARDS PATIENTS



Fast initiation of immunotherapy or targeted therapy as first-line treatment is crucial for cancer patients, as it increases overall survival rates.^{9,10,11,17,22} Timely detection of biomarkers therefore is very important.

Today, turnaround times of reference technologies are on average 18 days, with 14% of patients waiting longer than a month to be able to start treatment. Ninety-five percent of the patients have to wait more than a week in order to receive the biomarker results.⁶

This means that precious time is lost whereas treatment initiation could have been started and unnecessary use of chemotherapy with its side effects could have been avoided.



TOTAL TURNAROUND TIME OF REFERENCE TECHNOLOGIES

IDYLLA™, THE NEXT LEVEL IN DISEASE INTERCEPTION

Idylla™, a **fully automated**, sample-to-result PCR based **molecular diagnostics** system, provides **same-day** results enabling physicians to make **timely decisions** on patients' therapy.

Idylla™ can be used with **multiple sample types**, including **solid** and **liquid biopsies**. This flexibility allows use of the system for **diagnostic**, **research**, and potentially future **monitoring** applications.

Idylla™, with its **compact scalable design** and **outstanding ease-of-use**, overcomes the traditional barriers of molecular diagnostics, allowing it to be used in virtually **any laboratory setting**.



* e.g. deparaffinization for FFPE tissue samples

IDYLLA™ IS THE FIRST AND ONLY MOLECULAR DIAGNOSTIC SYSTEM THAT COMBINES



FAST RESULTS

- Less than 2 minutes hands-on time
- Short turnaround time - 85 to 150 minutes



ACCURATE RESULTS

- High sensitivity
- Highly standardized technology
- Contamination-controlled design



ACCESSIBLE

- Access on demand - no need for pre-processing or batching



MULTIPLEXING CAPABILITY

- Detection of up to 51 relevant mutations in one cartridge
- Multiple genes and loci detection in one cartridge



EASE-OF-USE

- Fully automated sample-to-result process
- Walk-away system (no need for any intervention during the automatic process)
- All reagents integrated in a single cartridge
- Only 1 manual step
- Storage and shipment at room temperature



SAMPLE VERSATILITY

- For solid and liquid biopsy



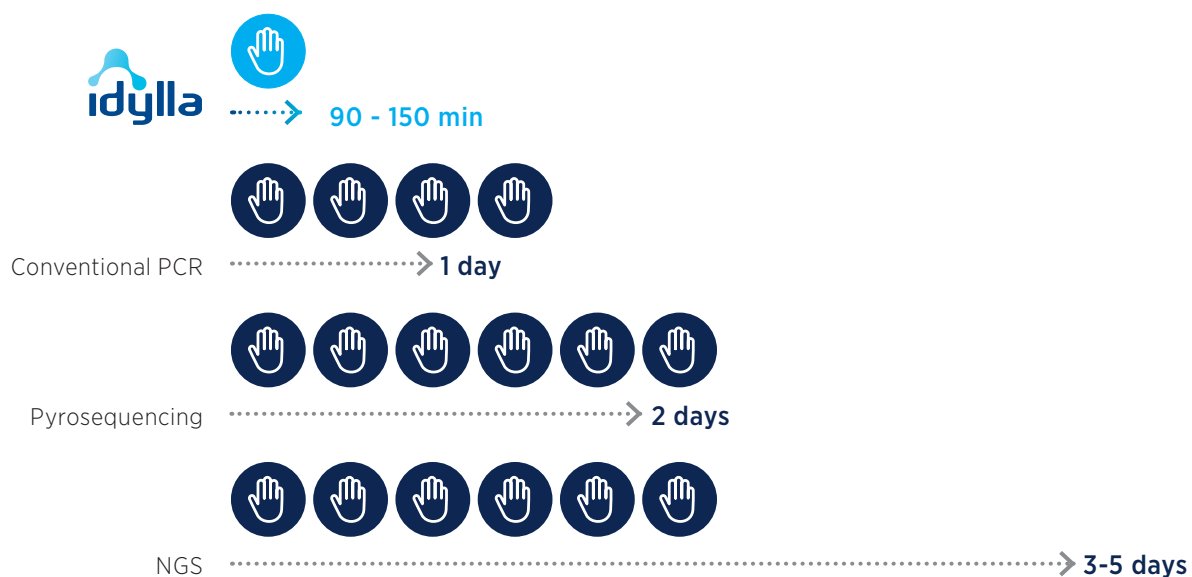
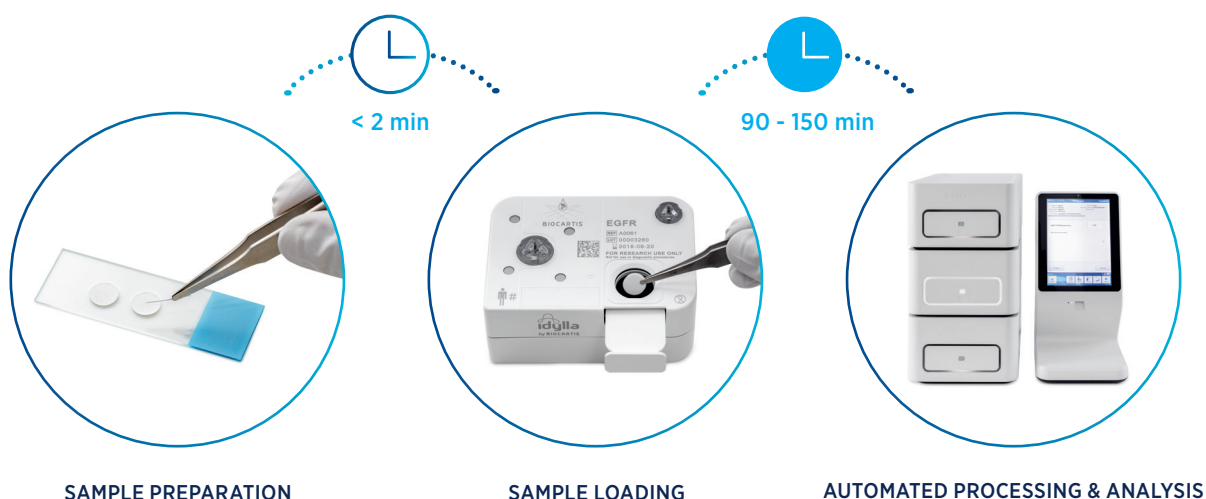
CONNECTIVITY

- Remote assistance, monitoring and upgrading
- Bi-directional LIS



THE REVOLUTIONARY IDYLLA™ WORKFLOW

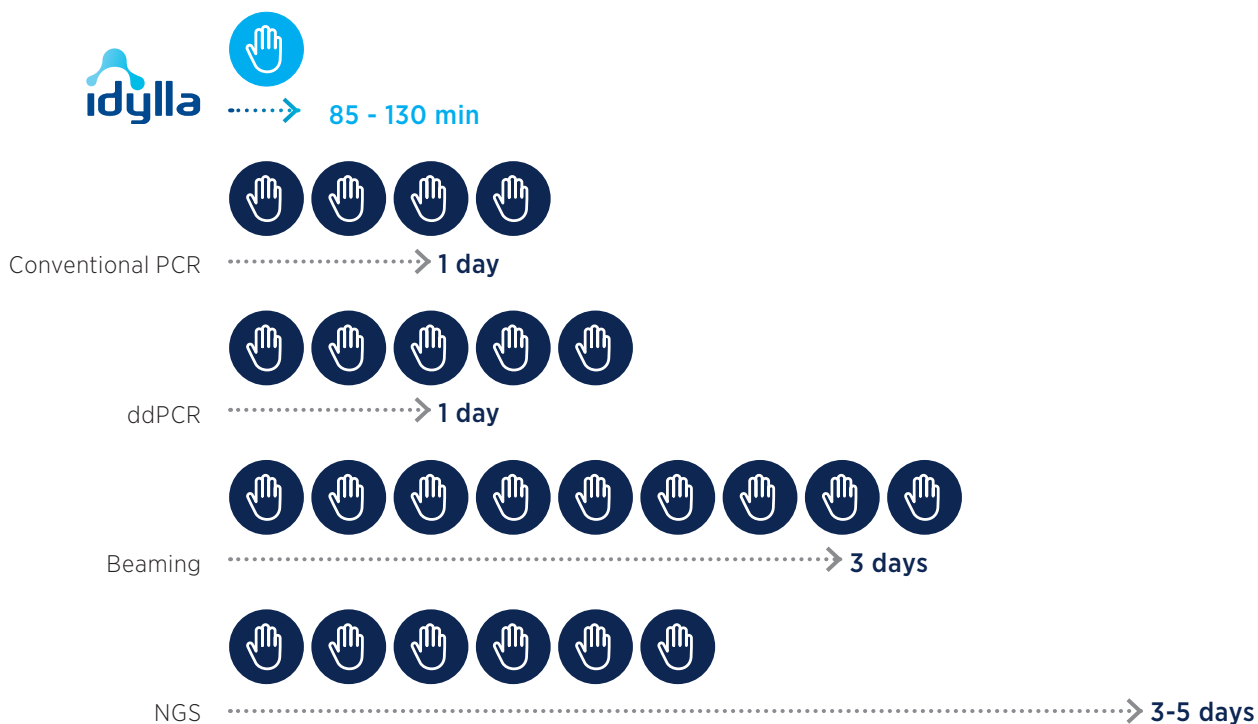
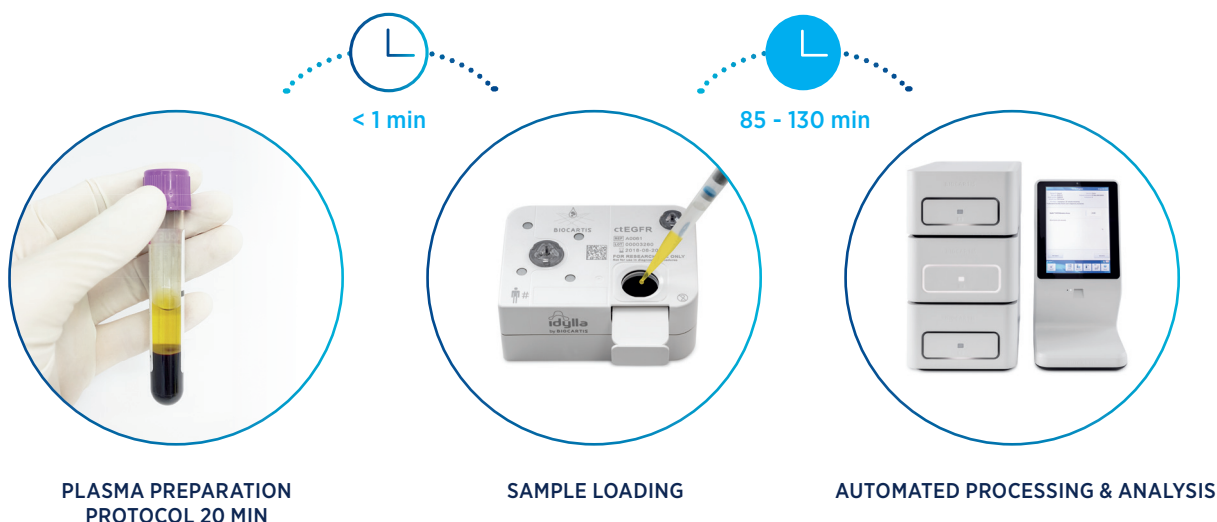
FFPE WORKFLOW





The Idylla™ system in combination with the Idylla™ Molecular Oncology Assays differs from other technologies in its outstanding **ease-of-use**, leading to an unsurpassed level of **standardization**, and its **short turnaround time**, allowing immediate access to therapy.

LIQUID BIOPSY WORKFLOW



INSTRUMENTS AND CONSUMABLES



INSTRUMENTS



CONSUMABLES



LAB INFRASTRUCTURE
(# OF ROOMS)

1

OTHER RT-PCR

INSTRUMENTS



CONSUMABLES



LAB INFRASTRUCTURE
(# OF ROOMS)

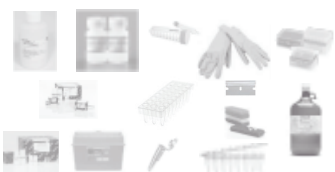
3

PYROSEQUENCING

INSTRUMENTS



CONSUMABLES



LAB INFRASTRUCTURE
(# OF ROOMS)

4

NEXT GENERATION SEQUENCING

INSTRUMENTS



CONSUMABLES



LAB INFRASTRUCTURE
(# OF ROOMS)

4

CURRENT ONCOLOGY ASSAYS



FFPE IN - REPORT OUT

Diagnostic products (CE IVD)

Idylla™ BRAF Mutation Test
Idylla™ KRAS Mutation Test
Idylla™ NRAS-BRAF Mutation Test
Idylla™ NRAS Mutation Test
Idylla™ EGFR Mutation Test
Idylla™ MSI Test

Research products (RUO)

Idylla™ NRAS-BRAF-EGFR S492R
Mutation Assay



PLASMA IN - REPORT OUT

Diagnostic products (CE IVD)

Idylla™ ctKRAS Mutation Test
Idylla™ ctNRAS-BRAF Mutation Test

Research products (RUO)

Idylla™ ctBRAF Mutation Assay
Idylla™ ctNRAS-BRAF-EGFR S492R
Mutation Assay

FUTURE ONCOLOGY ASSAY TARGETS



FFPE IN - REPORT OUT

GeneFusion



PLASMA IN - REPORT OUT

ctEGFR



BRAF**ctBRAF**

IDYLLA™ BRAF MUTATION DETECTION ON SOLID AND LIQUID BIOPSIES

BACKGROUND INFORMATION*

Activating mutations in the *BRAF* gene are observed in about 8% of all cancers⁷ and have been associated with sensitivity and resistance to a number of targeted anti-cancer therapeutics.

Cancers in which *BRAF* mutations are observed include: melanoma, colorectal cancer, thyroid cancer, lung cancer, hairy cell leukemia and ovarian cancer.

BRAF testing is recommended in all patients with metastatic melanoma and metastatic colorectal

cancer (mCRC). About 50% of all metastatic melanoma patients harbor mutations in the *BRAF* gene, making them eligible for BRAF or BRAF/MEK inhibitor therapy.⁸ In mCRC, BRAF mutation status should be assessed alongside the assessment of tumor *RAS* mutational status for prognostic assessment (the presence of a *BRAF* mutation indicates poor prognosis). The prevalence of *BRAF* in mCRC is about 8-15%.⁹

*Idylla™ BRAF Mutation Test is validated for use in metastatic melanoma

DIAGNOSTIC PRODUCT

Idylla™ BRAF Mutation Test (CE IVD)

BRAF

Diagnostic use

 approx.
90 min
sample-to-result

< 2 min

hands-on time

7 mutations
in codon
600



FFPE

Directly on FFPE tissue sections
(5-10 µm) from **metastatic
melanoma**



Qualitative genotype call



Mutation detection for **baseline
treatment**

RESEARCH PRODUCT

Idylla™ ctBRAF Mutation Assay (RUO)

ctBRAF

Research Use Only, not for diagnostic use

 approx.
85 min
sample-to-result

< 1 min

hands-on time

7 mutations
in codon
600



plasma

Directly on 1 ml plasma



**Semi-quantitative genotype
call + Cq values**



**Applicable in multiple
cancers** harboring BRAF
mutations

*Prof. B. Neyns, M.D., Ph.D
Medical Oncology, UZ Brussels, Belgium*

"The Idylla™ system has the potential to allow the start of targeted therapy within a time window of less than 24 hours following the diagnosis of metastasis, thereby saving precious time"

EGFR

IDYLLA™ EGFR MUTATION DETECTION ON SOLID BIOPSY

BACKGROUND INFORMATION*

Lung cancer is the most common cancer worldwide, contributing for 13% of all cancer types. 85% of lung cancers are non-small cell lung cancers (NSCLC), of which histologically adenocarcinoma is the most prevalent.

EGFR mutations are mainly observed in lung cancer. *EGFR* mutation testing in exons 18-21 is recommended in all patients with advanced NSCLC of a non-squamous subtype. Activating mutations in the *EGFR* gene have been associated with sensitivity and resistance to a number of targeted anti-cancer therapeutics.^{11,17}

Exon 19 deletion and exon 21 (L858R, L861), exon 18 (G719X), and exon 20 (S768I) mutations are associated

with sensitivity to TKI's. Exon 20 insertion mutation may predict resistance to TKI's. *EGFR* T790M mutation is the main indicator of the patient's resistance to TKI therapy and has been reported in about 55% of patients with disease progression after initial response to 1st or 2nd generation TKI's.^{11,17}

The prevalence of *EGFR* mutations in NSCLC adenocarcinomas is 10-15% of Western and up to 50% of Asian patients. Sensitizing *EGFR* mutations are predictive for response to *EGFR* tyrosine kinase inhibitors.^{11,17,21}

*Idylla™ EGFR Mutation Test is validated for metastatic NSCLC

DIAGNOSTIC PRODUCT

Idylla™ EGFR Mutation Test (CE IVD)

EGFR

Diagnostic use



FFPE

Directly on 1 FFPE tissue section (5 µm) from **metastatic non-small-cell lung cancer**



Qualitative genotype call
+ Cq values



Mutation detection **for treatment assessment**

"Today, EGFR testing is a cumbersome process and it often takes several weeks before results are analyzed. This may lead to the administration of anti-EGFR therapy as second-line agents, which is less efficient than their use in first-line therapy. The Idylla™ EGFR Mutation Test technology has the potential to change that: it is a cost-effective solution, ensuring reliable and fast detection of all relevant mutations"

Prof Giancarlo Troncone
University of Napoli Federico II, Naples

IDYLLA™ KRAS MUTATION DETECTION ON SOLID AND LIQUID BIOPSIES

BACKGROUND INFORMATION*

Activating mutations in the *RAS* genes are observed in 9-30% of all cancers and have been associated with sensitivity and resistance to a number of targeted anti-cancer therapeutics.¹² Cancers in which *KRAS* mutations are observed include: colorectal cancer, lung cancer and pancreatic cancer.

According to ESMO⁹, NCCN¹⁴, ASCO¹⁶ and CAP/AMP/ASCO guidelines¹⁵, genotyping of clinically actionable mutations at a sensitivity of 5% in *RAS* genes exon 2 (codons 12 and 13), exon 3 (codons 59 and 61) and exon 4 (codons 117 and 146) is now mandatory on tumor tissue (either primary or metastasis) of all metastatic colorectal cancers, since the presence of these mutations correlate with the lack of response to

certain anti-EGFR antibody therapies⁹. About 46% of all metastatic colorectal tumors harbor mutations in exons 2, 3 and 4 of the *KRAS* gene.¹³ Several studies are ongoing to define the predictive impact of *KRAS* mutations on therapy decision for non-small-cell lung cancer (NSCLC) patients.^{18,19,20} Currently there is evidence that *KRAS* in lung cancer has a prognostic value, indicating poor survival for patients with NSCLC, compared to the absence of *KRAS* mutations.¹¹

Using liquid biopsies for *KRAS* testing is minimally invasive, fast and easy to perform and can be used as an alternative or complement to tissue testing to determine the *RAS* mutation status at diagnosis.

*Idylla™ *RAS* Mutation Tests are validated for use in mCRC

DIAGNOSTIC PRODUCT

Idylla™ **KRAS** Mutation Test (CE IVD)

KRAS

Diagnostic use



Directly on FFPE tissue sections (5-10 µm) from **metastatic colorectal cancer**



Qualitative genotype call



Mutation detection for **baseline treatment**

DIAGNOSTIC PRODUCT

Idylla™ **ctKRAS** Mutation Test (CE IVD)

ctKRAS

Diagnostic use



Directly on 1 ml plasma from **mCRC patients**



Qualitative genotype call
+ Cq values



Mutation detection for **baseline treatment**

*Beatriz Bellosillo
Laboratori de Biologia Molecular,
Hospital del Mar, Barcelona*

"Idylla™ allows very quick results with little hands-on time"

IDYLLA™ NRAS MUTATION DETECTION ON SOLID AND LIQUID BIOPSIES

BACKGROUND INFORMATION*

Activating mutations in the *RAS* genes are observed in 9-30% of all cancers and have been associated with sensitivity and resistance to a number of targeted anti-cancer therapeutics.¹² Cancers in which *NRAS* mutations are observed include colorectal, lung, thyroid cancers and melanoma. According to ESMO⁹, NCCN¹⁴, ASCO¹⁶ and the CAP/AMP/ASCO guidelines¹⁵, genotyping of clinically actionable mutations at a sensitivity of 5% in *RAS* genes exon 2 (codons 12 and 13), exon 3 (codons 59 and 61) and exon 4 (codons 117 and 146) is now mandatory on tumor tissue (either primary or metastasis) of all metastatic colorectal cancers, since the presence of these mutations

correlate with the lack of response to certain anti-EGFR antibody therapies⁹. About 5% of all metastatic colorectal tumors harbor mutations in exons 2, 3 and 4 of the *NRAS* gene.¹³ In metastatic colorectal cancer *BRAF* mutation status should be assessed alongside the assessment of tumor *RAS* mutational status for prognostic assessment (the presence of a *BRAF* mutation indicates poor prognosis). Using liquid biopsies for *NRAS-BRAF* testing is minimally invasive, fast and easy to perform and can be used as an alternative or complement to tissue testing to determine the *RAS* mutation status at diagnosis.

*Idylla™ RAS Mutation Tests are validated for use in mCRC

NRAS-BRAF **NRAS**

DIAGNOSTIC PRODUCT

Idylla™ **NRAS-BRAF** Mutation Test (CE IVD)
Idylla™ **NRAS** Mutation Test (CE IVD)

Diagnostic use



Qualitative genotype call
+ Cq values



Mutation detection for **baseline treatment**

*Only available in Idylla™ NRAS-BRAF mutation Test

ctNRAS-BRAF

DIAGNOSTIC PRODUCT

Idylla™ **ctNRAS-BRAF** Mutation Test (CE IVD)

Diagnostic use



Qualitative genotype call
+ Cq values



Mutation detection for **baseline treatment**

MSI

IDYLLA™ MSI DETECTION ON SOLID BIOPSIES

BACKGROUND INFORMATION*

Microsatellite instability (MSI) is defined as a length variation of DNA repeat regions found in microsatellites or homopolymers. MSI is caused by deficiency of the DNA mismatch repair system (dMMR) resulting in a distinct accumulation of insertions and deletions in microsatellite and homopolymeric regions.²³

MSI can be sporadic or hereditary. MSI-high (MSI-H) is detected in 15% of all colorectal cancers; 3% are associated with Lynch syndrome (LS), the other 12% have sporadic disease.²⁴

Clinical trials and pathophysiological studies indicate a wide distribution of MSI-H across tumor types.²⁵

In addition to CRC, high incidences are observed in endometrial cancer (20-30%), and gastric cancer (15-20%).²⁶

Guidelines recommend assessing the MSI status for all patients with colorectal or endometrial carcinomas for screening for Lynch syndrome as well as for prognostic stratification and potential response to certain immunotherapies.²⁷⁻³⁰

Research studies have shown that MSI-H patients respond favorably to immune checkpoint inhibitors, and checkpoint blockade therapy has recently been incorporated into clinical care for gastrointestinal cancers.^{31,32}

*Idylla™ MSI Test is only validated for CRC

DIAGNOSTIC PRODUCT

Idylla™ MSI Test (CE IVD)

MSI

Diagnostic use

7 novel
MSI Bio-
markers*

approx.
150 min
sample-to-result

< 2 min
hands-on time



FFPE

Directly on FFPE tissue sections (5-10 µm) from colorectal cancer. **No need** for **paired normal tissue sections**



Qualitative MSI call
+ MSI score



Determination of **MSI status** in **colorectal cancer**

*ACVR2A, BTBD7, DIDO1, MRE11, RYR3, SEC31A and SULF2

"We are delighted with the performance of the Idylla™ MSI Test providing high quality results from minimal amount of tissue. The ease of use allows even laboratories with minimal histopathology experience to perform MSI testing in-house."

Sarah L. McCarron
Cancer Molecular Diagnostics,
St. James' Hospital, Dublin, Ireland

IDYLLA™ CONNECT ENGAGE IN THE FUTURE

ADVANCED SERVICES

IDYLLA™ EXPLORE



ADVANCED SERVICES TO ENSURE CONTINUITY IN YOUR LABORATORY WORKFLOW



AUTOMATIC SOFTWARE UPDATES

New releases of assay and console software are sent to your Idylla™ console and can be installed with a single touch on the screen.



IMMEDIATE AND REMOTE SERVICE AND SUPPORT

Idylla™ system parameters and error logs can be analyzed at anytime and anywhere to ensure swift actions and solutions.

MORE INSIGHT INTO YOUR DATA WITH IDYLLA™ EXPLORE



Get connected and enjoy **the advantages of Idylla™ Explore**,
a web-based application that allows you to analyze your data by providing

- Visualization of PCR curves from Idylla™ Test Results
- Cq values per target
- Direct Access to Console result reports

Idylla™ Explore can be accessed anywhere and anytime from your PC or tablet
through the following link: <https://idyllaexplore.biocartis.com>

Subscribe today and **join the Idylla™ Explore community**
by sending an email to explore@biocartis.com



IDYLLA™: NOTHING IS SIMPLE IN ONCOLOGY. NOTHING BUT THIS.



There's a clear need for improved, standardized and fast diagnostics that allow faster initiation of targeted therapy for cancer patients.

Idylla™, Biocartis' fully automated molecular diagnostics system, is the first and only molecular diagnostic system that combines unsurpassed ease-of-use, speed and accuracy on multiple sample types. With its compact, scalable design and outstanding ease-of-use, Idylla™ overcomes the traditional barriers of molecular diagnostics, allowing it to be used in virtually any laboratory setting.

And by providing same-day-results, Idylla™ enables physicians to make timely decisions on patients' therapy.



IDYLLA™ ORDER INFORMATION

DIAGNOSTIC PRODUCTS (CE-IVD)

Idylla™ BRAF Mutation Test	6 cartridges/box	Catalog# A0010/6
Idylla™ KRAS Mutation Test	6 cartridges/box	Catalog# A0020/6
Idylla™ NRAS-BRAF Mutation Test	6 cartridges/box	Catalog# A0030/6
Idylla™ NRAS Mutation Test	6 cartridges/box	Catalog# A0040/6
Idylla™ EGFR Mutation Test	6 cartridges/box	Catalog# A0060/6
Idylla™ ctKRAS Mutation Test	6 cartridges/box	Catalog# A0080/6
Idylla™ ctNRAS-BRAF Mutation Test	6 cartridges/box	Catalog# A0090/6
Idylla™ MSI Test	6 cartridges/box	Catalog# A0100/6

RESEARCH PRODUCTS (RUO)

Idylla™ BRAF Mutation Assay	6 cartridges/box	Catalog# A0011/6
Idylla™ KRAS Mutation Assay	6 cartridges/box	Catalog# A0021/6
Idylla™ NRAS-BRAF-EGFR S492R Mutation Assay	6 cartridges/box	Catalog# A0031/6
Idylla™ EGFR Mutation Assay	6 cartridges/box	Catalog# A0061/6
Idylla™ ctBRAF Mutation Assay	6 cartridges/box	Catalog# A0071/6
Idylla™ ctKRAS Mutation Assay	6 cartridges/box	Catalog# A0081/6
Idylla™ ctNRAS-BRAF-EGFR S492R Mutation Assay	6 cartridges/box	Catalog# A0091/6
Idylla™ MSI Assay	6 cartridges/box	Catalog# A0101/6

PLATFORM (CE-IVD)

Idylla™ Instrument	1 unit	Catalog# P0010
Idylla™ Console	1 unit	Catalog# P1010

customerservice@biocartis.com

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NOTICE

Idylla™ BRAF Mutation Test

The MGB Probe contained in the BRAF Mutation Test is covered by applicable US patents and corresponding patents outside the US and is sold under a license from the ELITech Group. The purchase of this product includes a license to use only this amount of product solely for the purchaser's own use solely in the human in vitro diagnostic field (in accordance with applicable FDA and other regulatory requirements) and may not be used for any other commercial use, including without limitation repackaging or resale in any form (including resale by purchasers who are licensed to make and sell kits for use in the 5' Nuclease Process). No right under any other patent claim or for any other use is conveyed expressly, by implication, or by estoppel. Corresponding products conveying rights for use in all other fields may be obtained from Life Technologies under a separate catalog number. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, California 92008.

Idylla™ BRAF Mutation Assay and Idylla™ ctBRAF Mutation Assay

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Idylla™ KRAS Mutation Test, Idylla™ KRAS Mutation Assay, Idylla™ ctKRAS Mutation Test and Idylla™ ctKRAS Mutation Assay

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Idylla™ NRAS Mutation Test, Idylla™ NRAS-BRAF Mutation Test, Idylla™ ctNRAS-BRAF Mutation Test, Idylla™ NRAS-BRAF-EGFR S492R Mutation Assay and Idylla™ ctNRAS3 Mutation Assay

The Idylla™ NRAS Mutation Test, Idylla™ NRAS-BRAF Mutation Test, Idylla™ NRAS-BRAF-EGFR S492R Mutation Assay, ctNRAS3 Mutation Assay and Idylla™ ctNRAS-BRAF Mutation Test contain PlexZyme and PlexPrime technology covered by patents granted and pending in certain jurisdictions, which are supplied under licence of SpeedX Pty Ltd. PlexZyme and Plexprime are trademarks of SpeedX Pty Ltd. The Idylla™ NRAS Mutation Test, Idylla™ NRAS-BRAF Mutation Test and the Idylla™ NRAS-BRAF-EGFR S492R Mutation Assay contain Hilyte and QXL probes. QXL and Hilyte are licensed pursuant to an agreement with Eurogentec S.A. and these licensed probes can be used solely for the purchaser's own research use. Hilyte™ is a trademark of Anaspec, Inc. QXL® is a registered trademark of Anaspec, Inc.

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Idylla™ MSI Test

The Idylla™ MSI Test includes MSI biomarkers covered by patents granted and pending in certain jurisdictions, used under license from VIB-KU Leuven.

Important information

Idylla™ platform and Idylla™ BRAF, KRAS, NRAS-BRAF, NRAS, EGFR, ctKRAS & ctNRAS-BRAF Mutation Tests and Idylla™ MSI Test are CE-marked IVD's in Europe. Idylla™ BRAF, KRAS, EGFR, NRAS-BRAF-EGFR S492R, ctBRAF, ctKRAS & ctNRAS-BRAF-EGFR S492R Mutation Assays and Idylla™ MSI Assay are available for Research Use Only (RUO), not for use in diagnostic procedures. Idylla™ ctEGFR Mutation Assay and Idylla™ GeneFusion Assay are under development. Idylla™ is available for sale in EU, USA and some other countries. Please check availability with the local Biocartis sales representative.

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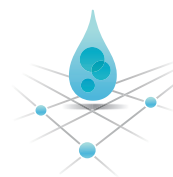
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