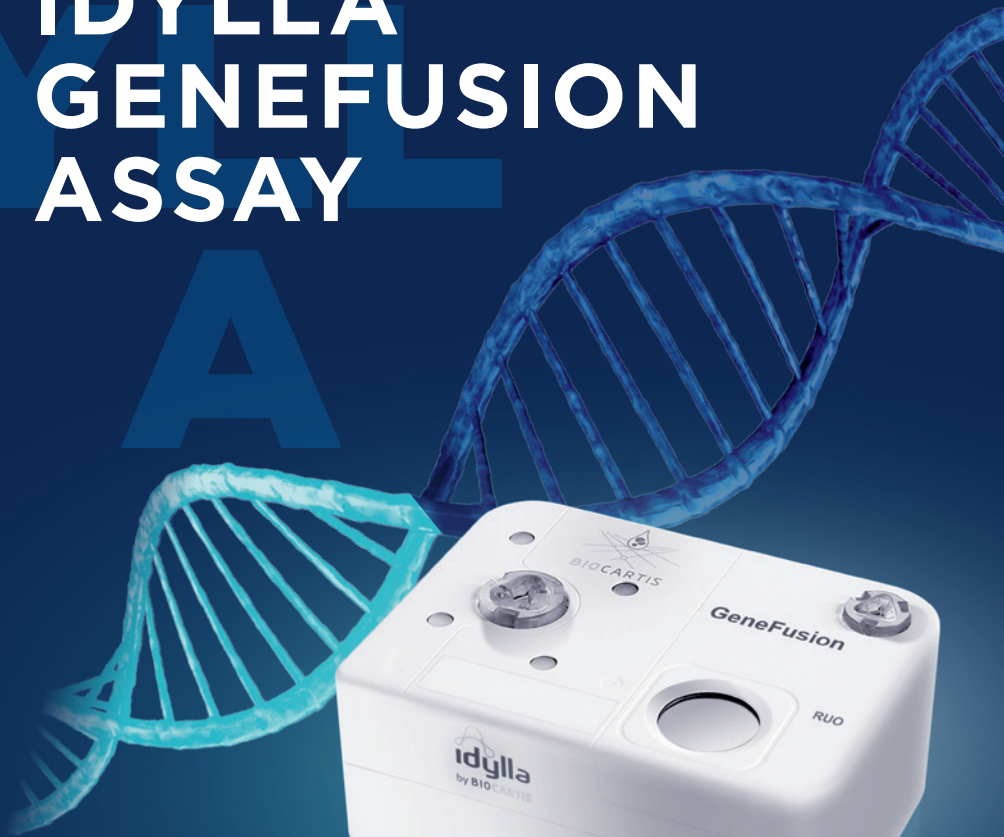


BECAUSE  
TIME MATTERS

# IDYLLA™ GENEFUSION ASSAY



Idylla™ GeneFusion Assay is for Research Use Only,  
not for use in diagnostic procedures.

# INTRODUCING IDYLLA™ GENEFUSION ASSAY FOR SPEED AND SIMPLICITY



Detection of ALK, ROS1, RET & MET Exon 14 skipping plus NTRK1/2/3 fusion screening in one cartridge



Fully automated molecular testing platform  
On-demand testing



Less than 3 minutes hands-on time (HOT)  
Assay turnaround time (TAT) of approx. 180 minutes



Directly from 1-3 FFPE slices



## MINIMUM SPECIMEN REQUIREMENTS

- If  $\geq 20$  mm<sup>2</sup> tissue area: 1 x 5  $\mu$ m FFPE tissue section
- If  $< 20$  mm<sup>2</sup> tissue area: 3 x 5  $\mu$ m FFPE tissue sections
- $\geq 10\%$  neoplastic cell content



# IDYLLA™ GENEFUSION ASSAY DETECTION OF KNOWN AND NOVEL FUSIONS

A unique combination of 2 detection technologies:



Highly sensitive detection of the most relevant gene fusions directly from RNA transcripts by real-time PCR (RT-qPCR).



Expression imbalance detecting gene fusions irrespective of fusion partner based on the 3' kinase overexpression caused by the partner gene.

Detection Method	ALK	ROS1	RET	MET ex14	NTRK 1	NTRK 2	NTRK 3
Specific fusion detection	●	●	●	●	-	-	-
Expression imbalance	●	●	●	-	●	●	●

## THE RIGHT SOLUTION FOR ANY LAB

### FAST, EASY AND OBJECTIVE

The Idylla™ GeneFusion Assay consolidates traditional testing workflows into one streamlined, fully-automated process providing reliable, objective information on ALK, ROS1, RET, METex14 skipping and NTRK1/2/3 in about 180 minutes.

### ONLY LIMITED AMOUNT OF SAMPLE NEEDED

The Idylla™ GeneFusion Assay provides simultaneous detection of strategic biomarkers on-demand from a limited amount of sample thereby saving valuable tissue specimens.

### FIRST LINE ACTIONABLE INFORMATION

The Idylla™ GeneFusion Assay provides a rapid actionable solution which can be seamlessly integrated into virtually any laboratory workflow complementing comprehensive NGS.

# IDYLLA™ GENEFUSION ASSAY SHOWING EXCELLENT PERFORMANCE

The Idylla™ GeneFusion Assay reveals strong analytical and clinical potential compared to conventional methods such as IHC, FISH and NGS.<sup>1-3</sup>

## ALK, ROS1, RET AND METEX14

### Study 1: Memorial Sloan Kettering Cancer Center, New York, NY, US<sup>1</sup>



SOC: MSK-IMPACT (hybrid capture-based DNA NGS) and MSK-Fusion (anchored multiplex PCR-based RNA NGS)

### Study 2: Mayo Clinic, Rochester, MN, US<sup>2</sup>



SOC: Five NGS panels currently used at Mayo Clinic

## NTRK

**NTRK gene fusions** are found across several adult and pediatric tumor types (0.3% across all tumor types).<sup>4</sup> **Immunohistochemistry (IHC)** is currently the most commonly used screening method. However, it is essential to note that its **sensitivity may be limited** when it comes to detecting gene fusions involving NTRK3.<sup>5</sup>

**NTRK pan-cancer testing algorithm designed to detect virtually all NTRK fusions, including the often overlooked NTRK3 by IHC:**



\* Confirmation testing is not required for Not Detected results.

(1) Chu et al., Clinical Utility and Performance of an Ultrarapid Multiplex RNA-Based Assay for Detection of ALK, ROS1, RET, and NTRK1/2/3 Rearrangements and MET Exon 14 Skipping Alterations, J Mol Diag, 2022

(2) Buglioni et al., Clinical Utility Validation of an Automated Ultrarapid Gene Fusion Assay for NSCLC, JTO Clinical and Res Reports, 2022

(3) Gilson et al., Validation of the Idylla GeneFusion assay to detect fusions and MET exon-skipping in non-small cell lung cancers, Scientific Reports, 2023

(4) Epidemiology of NTRK gene fusions (esmo.org)

(5) Solomon et al., NTRK fusion detection across multiple assays and 33,997 cases: diagnostic implications and pitfalls, Modern Pathology, 2020

# GENE FUSION FACTS

Gene fusions represent an important class of somatic alterations in cancer. Due to their inherent expression in tumor tissue alone they have become important biomarkers for cancer research, prognosis, and targeted therapies.<sup>1,2</sup>

Discovery and further understanding of fusion genes across multiple cancer types may provide more effective therapies in the future for cancer patients.

Over the last 20 years, many gene fusions have been discovered in hematological cancers, solid tumors and sarcomas.

## ADULT



SALIVARY GLAND CANCER



THYROID CANCER



HEPATIC CANCER



LUNG CANCER



GI CANCER



CNS CANCER



SARCOMA



MELANOMA

## PEDIATRIC



SARCOMA



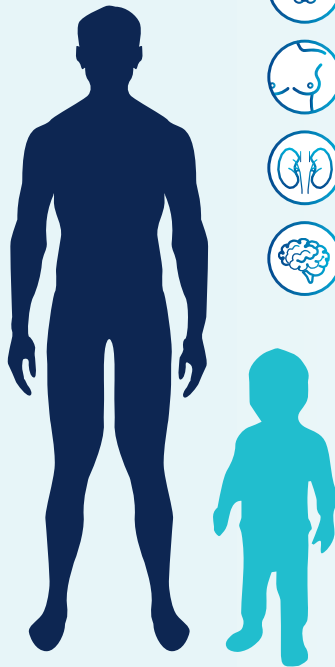
SECRETORY BREAST CANCER



RENAL CANCER



CNS CANCER



(1) Stransky et al. The landscape of kinase fusions in cancer. Nat Commun. 5, 4846, 2014.

(2) Mertens et al. The emerging complexity of gene fusions in cancer. Nat Rev Cancer 15, 371-381, 2015.

# IDYLLA™ GENEFUSION ASSAY FOR SPEED AND SIMPLICITY BECAUSE TIME MATTERS

Information on ALK, ROS1, RET, METex14 and NTRK1/2/3 in **ONE SINGLE CARTRIDGE**



Catalog number: A0121/6

Biocartis NV  
Generaal de Wittelaan 11B  
2800 Mechelen - Belgium  
+32 15 632 888

Biocartis US Inc.  
2 Pierce Place Suite 1510  
Itasca, IL 60143 - USA  
1-844-4-IDYLLA (1-844-443-9552)

Follow us on     
[www.biocartis.com](http://www.biocartis.com)  
[customerservice@biocartis.com](mailto:customerservice@biocartis.com)  
[customerserviceUS@biocartis.com](mailto:customerserviceUS@biocartis.com)

(1) Chu et al., Clinical Utility and Performance of an Ultrarapid Multiplex RNA-Based Assay for Detection of ALK, ROS1, RET, and NTRK1/2/3 Rearrangements and MET Exon 14 Skipping Alterations, J Mol Diag, 2022

(2) Buglioni et al., Clinical Utility Validation of an Automated Ultrarapid Gene Fusion Assay for NSCLC, JTO Clinical and Res Reports, 2022

The Idylla™ GeneFusion Assay contains SuperScript™ III Reverse Transcriptase and is provided subject to a license under patents or patent applications owned by or licensed to Life Technologies Corporation, which license is limited to the human diagnostic field and research field and specifically excludes applications in forensics (including human identity testing). The SuperScript™ III trademark is owned by Life Technologies Corporation.

Patents US 7,700,339, 8,168,383, 8,481,279, 8,486,645, 8,232,060, 8,288,102, 8,377,642, 9,988,688, 9,523,130, 9,096,855, 10,526,661, 9,364,477, 9,539,254, 10,551,383 and pending US applications and all their respective foreign equivalents are under license from Cell Signaling Technology, Inc. Idylla™ GeneFusion Assay is for Research Use Only (RUO), not for use in diagnostic procedures. Idylla™ Platform is CE-marked in Europe in compliance with EU IVD Regulation 2017/746, cleared for sale in the US and registered in many others countries. Idylla™ is available for sale in Europe, the US and many other countries. Please check availability with a Biocartis representative. Biocartis and Idylla™ are registered trademarks in Europe, the US and many other countries. The Biocartis and Idylla™ trademarks and logos are used trademarks owned by Biocartis NV. © January 2024, Biocartis NV. All rights reserved.